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No. 40

Portland Seed Company's

Complete 1904 Catalogue

Number 40

Number 40

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Here Are Your Premiums



We like to be just as generous with our customers as we possibly can. Aside from furnishing you the very best seeds that grow, and the best stocks obtainable in our lines, we give away, free, with certain sized orders, as follows:

With a \$2.50 Order

Your choice of

- 1 packet "Giant of All" Pumpkin,
or
- 1 packet Lewis and Clark Sweet Peas
or
- 2 plants Oregon Strawberries.

With a \$5.00 Order

- 2 pounds Shadeland Wonder Oats,
or

- 6 plants Oregon Strawberries,
or

Any 50c. book we list. (See page 98.)

With a \$10.00 Order

Double the \$5.00 premium offer,

or

Any 25c. book we list. (See page 98.)

or

One year's subscription to *Northwest Poultry Journal*, the best Western poultry paper,

or

One year's subscription to *Reliable Poultry Journal*, the best Eastern poultry paper,

or

2 choice two-year-old Rose Bushes.

IF YOU SELECT THESE PREMIUMS, YOU ARE NOT ENTITLED TO OUR SPECIAL DISCOUNT OFFER BELOW, ON PACKETS AND OUNCES.

These cost you nothing. We give them to you free, to show you that we appreciate your orders. If your order is not large enough to get the premiums you want, get your neighbor to send with you—the premiums are worth the trouble.

We pay one cent per name for good addresses. See back of Order Sheet.

Special Rates on Seeds in Packets or Ounces

This offer is by mail, postage paid by us, to any postoffice in the United States.

25 cts. *Worth of Seeds Free will be allowed for each One Dollar sent for Seeds in Packets and One Ounce Packages.*

IN OTHER WORDS, we will fill an order for \$1.25 worth of seed, in PACKETS and OUNCES only, for \$1.00; an order for \$2.50 for \$2.00, and so on. No discount on less than \$1.00 orders. This discount does not apply on quantities over one ounce, or where any other premium is taken.

PAGE ONE OF CATALOGUE TELLS HOW TO ORDER

ORDER SHEET

Portland Seed Company

**CORNER FRONT AND YAMHILL STREETS
PORTLAND, OREGON**

GENTLEMEN: Send me the goods named below according to the terms as specified in your Catalogue:

TERMS—CASH WITH ORDER

To (Name) _____

DO NOT WRITE IN THIS SPACE

Post Office _____

Station _____

County _____

State _____ **Date** _____

Send by _____

State if wanted by Mail, Express [and Company], Freight [and Route],
Steamer [and Line].

Am't Carried Forward,

FOR PREMIUMS SEE INSIDE FRONT COVER

If you will write in the spaces below, the names and addresses of ten of your neighbors who buy Seeds, Plants, Bee or Poultry Supplies, Sprays or Spray Pumps, you may, with your first order of 25 cents or over, select, free of charge, any two 5 cent papers of seeds that we list. We rely upon your honesty to send us good reliable names.

FOR PREMIUMS SEE INSIDE FRONT COVER



No. 1—Store and Offices, Nos. 180, 182-184-186 Front St., corner Yamhill.

No. 2—Warehouse, 50x200 feet, on East Washington St. and O. R. & N. Co.'s track.

No. 3—Dock, 65x125 feet, on the river front, foot of Yamhill St.



To Our Friends and Customers:

That we were well pleased with the orders sent us last year, from our complete catalog, is expressing ourselves very mildly. We expected quite an increase in trade, but the business we received greatly exceeded our expectations, and we wish to thank all who so kindly favored us with their orders during the past season. We have received many letters of praise for our goods and our mode of doing business, and we fully appreciate them.

Since our 1903 Catalog was issued, last January, we have spent thousands of dollars remodeling and improving our stores and offices. We believe that we now have the best equipped and most "up to date" Seed Store on this Coast, and we assure you that this year we will be able to take care of your orders in much better shape and with greater dispatch than ever.

At the top of this page is a true representation of our Store, Dock and Warehouse.

We have carefully revised this Catalog, adding such new goods of merit as we believe will be appreciated by our customers. Please remember that it is the policy of this company to offer not only the choicest seeds, but also the best goods in our different lines, that can be procured in this or any other country.

Our lines of Seeds, Poultry and Bee Supplies, Spray Pumps, Nursery Stock, etc., can not be equalled west of the Rockies.

At the head of each department, we have experienced men, who thoroughly understand their work. We employ the greatest number of experienced, progressive and reliable seedsmen to be found in the Northwest. This insures you against errors and mistakes, which are so damaging and annoying where new help is employed.

Our Catalog this year has been carefully re-written, and contains information which we are sure will be of value to you. We trust that you will give it a careful reading, and again favor us with your valued orders.

Wishing you a happy and prosperous season, we are, yours truly,

PORTLAND SEED CO.

HOW TO SEND MONEY. Remittances should be made by Postoffice or Express Money Order, Bank Draft, or Registered Letter. Postage stamps will be received for small amounts. Remittances in any other way are entirely at sender's risk.

HOW TO ORDER. Please use the order sheets found in the front part of every Catalog, carefully filling out the blank spaces at the top for shipping directions.

BE SURE TO SIGN YOUR NAME. and give Postoffice and State. And to avoid mistakes, do not write letters on the same sheet as orders.

SEEDS POSTPAID BY MAIL. We send all vegetables and flower seeds in quantities of one pound or less by mail, postpaid, to any Postoffice in the United States, at the prices named in this Catalog, unless otherwise stated.

BY FREIGHT OR EXPRESS. In ordering vegetables or flower seeds to be sent by freight or express at your expense, deduct 10 cents per pound from single pound prices, where postage has been added.

PREPAY STATIONS. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always the case where there is no regular agent.

We use every precaution in procuring fresh, pure and reliable seeds, etc., but it will not be possible for us to hold ourselves responsible for the growth, yield or failure of the crop in any respect. If our goods are not accepted on these terms they must be returned at once.

WHEN TO ORDER. New goods are all in, and we are prepared to fill orders as soon as this Catalog reaches you. Send in your combined orders for seeds, plants, supplies, etc., at once, and if you do not want all sent now we will send part now and balance of order later. The advantage of this is that your order is entered and filled, or stock reserved for it; and when you do want it, it can be sent upon notice to do so, with no delay. If you want part or all of your order held, state it distinctly, with date when shipment is to be made.

LARGE ORDERS. Any dealer, market gardener, institution or individual wishing seed in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it, with the very lowest market prices. A LETTER OF INQUIRY MAY SAVE YOU DOLLARS if you want to buy in quantity.

COMPLAINTS OR PRAISES. If you are well pleased with our goods, and manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully, and with the additional room and facilities we hope to get along the coming season without an error of any kind. Let us have your orders early, and we promise to please you.

VEGETABLE SEED DEPARTMENT

The following varieties may be relied on as distinctive and valuable, and the directions given for culture, if practically followed, will insure success.

What We Offer

At prices named we pay postage on all Vegetable and Flower Seeds ordered by the packet, ounce or pound, excepting Peas, Beans and Corn, for which, if wanted by mail, add 10 cents per pound for postage. In ordering Vegetable or Flower Seed to be sent by express or freight at your expense, deduct 10 cents per pound from single pound price, excepting for Peas, Beans, Corn and Onion Sets.

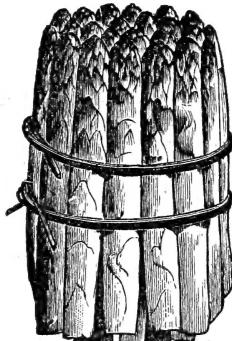


The varieties of vegetable seeds listed have been selected with great care and thoroughly tested. We are constantly adding such new and improved kinds as come to our notice, but offer no odd variety under a different name as a novelty. Should any customer desire seeds not listed we shall be pleased to procure them for him.

Asparagus

Asparagus is one of the earliest spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality it can be produced very easily and cheaply. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for an ordinary family.

CULTURE.—Soak the seed 24 hours in warm water, and sow early in drills one foot apart. An ounce of seed will sow about 30 feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant into permanent beds. A warm, sandy soil is the best, and one which has for some years been cultivated in garden crops and heavily manured is greatly to be preferred to a fresh soil. But at no period of its growth should the asparagus crop be allowed to lack for manuring. From one to three years' time can be saved by buying roots of us. For prices see page 66. 7260 roots will plant an acre.



ASPARAGUS.
(Bunched.)

COLUMBIAN MAMMOTH WHITE.

A newer, distinct and valuable variety. The stalks are white, of the largest size; very productive and early.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

CONNOVER'S COLOSSAL.

A large and rapid grower, of excellent quality.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

PALMETTO.

This is claimed to be an earlier, better yielder and more even grower than Colossal.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

ASPARAGUS CULTURE.

We have several good books on this subject. See Book List. Page 98.

Beans

Artichoke LARGE GREEN GLOBE.

The variety used as a table vegetable. The edible portion is the thick end of the leaf of the flower head. Sow early in drills one foot apart, and when about 10 inches high transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens.

Pkt., 5c.; oz., 30c.

ARTICHOKE TUBERS.

For prices and description of this valuable feed root, see Farm and Field Seeds, page 51.

Dwarf or Bush, Wax or Yellow Podded Kinds

When ordering Beans by mail add 10c. per lb. for postage.

BLACK-EYED WAX.

Vines medium size, pods long, straight, proportionately narrow and rounder than those of the Golden Wax, and of a lighter color. They cook quickly, both as snap and as shell beans. As early as the Golden Wax and of very good quality.

Pkt., 10c.; lb., 20c.

GOLDEN-EYED WAX.

This is an early and vigorous growing variety, yielding a great profusion of tender pods of a beautiful, waxy appearance, the vines growing about 1½ feet high, holding the pods well off the ground. It is singularly free from blight and rust.

Pkt., 10c.; 1lb., 15c.; 10 lbs., \$1.20.

DETROIT WAX. (Rust Proof).

One of the Best for Shipping
Long Distances.

Excelling in some respects any other wax variety. Is not likely to rust, even when exposed to very wet weather. Pods flat, good length and very broad. Its quality of keeping fresh and crisp a long time after being picked makes it valuable for shipping long distances. It is extra early, quality in the pod all that can be desired, and also excellent green shelled.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

Gardeners who buy Beans in large quantities should write for special prices.

Wax Beans—Continued**Davis Wax**

A handsome, white-seeded wax variety that is becoming more popular each year.

It is a rustless and immensely productive bush variety. The pods are long, nearly straight, white and handsome, and are carried well up from off the ground.

It is one of the best for market gardeners, because of its hardness, productiveness, handsome appearance, its good shipping and selling qualities and the small proportion of waste and second-quality pods. Canners say: "It is just what we want—a long, straight, clear white pod, which does not discolor in canning."

The dried Bean is kidney-shaped, clear white, and a favorite for baking and canning.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

Golden Wax

Has for many years been the best bean for general use in cultivation, and even now it is a competitor with the newer sorts for first place. Vines medium size, erect, moderately spreading. Very hardy and productive, with small, smooth leaves and small white blossoms.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

Extra Early Challenge Black Wax

Extremely Early, about a week in advance of any other wax variety, and considered one of the most desirable for first crop.

Market gardeners and others, to whom earliness is a matter of prime importance, cannot afford to be without this, which is truly the "earliest of all" wax beans.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

WARDWELL'S KIDNEY WAX.

A robust, hardy variety, yielding a heavy crop of large, unusually handsome, wax-like pods. Vines are of medium size, with long, flat pods of a delicate waxy yellow, very brittle and entirely stringless. We recommend this bean highly.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

Beans, Dwarf or Bush, Green Podded Kinds

If ordering Beans by mail, add 10c per pound for postage.

Extra Early Red Valentine**IMPROVED ROUND POD.**

Is of healthy, vigorous growth, and has no superior in any respect among the green podded kinds. The pods are round, very fleshy, tender, rich and quite stringless. The bean is rather small, and when ripe usually irregular in form and red in color. Considered a very fine bean for canning green.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.10.

EXTRA EARLY REFUGEE

Said to be the earliest green podded variety, fit for the table two weeks in advance of the old Refugee, and retaining all the good qualities of that standard sort.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.00.

EARLY LONG YELLOW SIX WEEKS.

Hardy standard variety; pods six inches long and one-half inch wide; light green in color; vine vigorous and productive.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.20.

EARLY MOHAWK.

The hardiest of all the bush kinds, and may safely be planted a week earlier than any other. The pods are pale green, large and broad. The vines continue in bearing a long time, and will withstand a light frost. The bean is large, dark purple and brown mottled.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.10.

STRINGLESS GREEN PODDED.

The only stringless green pod bush bean in cultivation. Consequently it surpasses all others in crisp, tender flavor.

The finely shaped, long, green pods are absolutely stringless, and are ready to market two weeks earlier than any other green podded bean. The Stringless Green Pod will supply a long felt want. It must prove of immense value, not only to the market gardener who wants to make more money, but also to the amateur who seeks a rare quality early for the home table.

Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.50.



BURPEE'S NEW STRINGLESS.

Bush Beans, Green Podded—Cont'd**CANADIAN WONDER.**

Pods are 10 to 12 inches long and produced in great abundance, fine green shelled. Pkt., 10c.; 1 lb., 25c.

BROAD WINDSOR.

Stock erect, strong and shrubby. The bean is large, broad and flat; it is best green shelled. To insure well filled pods, pinch off the top of the stalk and the ends of the shoots when the pods are forming. Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.20.

DWARF HORTICULTURAL.

Stock erect, strong and shrubby. The bean is highly prized, green shelled, being preferred by some to the Lima. It is rather large and plump and beautifully mottled yellow and red. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

REFUGEE, or THOUSAND TO ONE.

The best late kind for snaps and very productive. The pods are dark green, veined with purple, tender and crisp, and considered the best variety for pickling. The bean is rather small, oblong, dark purple to black, mottled with light yellowish brown. Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.20.

IMPROVED TREE BEAN.

The most prolific field variety. Grows twenty inches high and branches out like a tree. Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.00.

CASTOR BEAN.

Used for medicinal purposes and by some claimed to keep moles away. Pkt., 10c.; 1 lb., 25c.



REFUGEE.

ROYAL WHITE KIDNEY.

This bean is large, long, slightly curved, and pure white. It yields a heavy crop and is one of the best, either green shelled or dry. Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.10.



KENTUCKY WONDER.

Climbing or Pole Beans

EXCELSIOR If ordering by mail, add 10c. per pound for postage.

EARLY GOLDEN CLUSTER WAX.

An early and very beautiful sort. Vines large, strong, growing vigorous and hardy; pods six to eight inches long, borne in abundant clusters, each containing from three to six pods; these are broad, very thick and fleshy, deeply creased along the edge to which the beans are attached, and much curved; color bright golden yellow. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.50.

INDIAN CHIEF, OR TALL BLACK WAX.

Remarkable for its fine, tender and succulent pods, which are produced in great abundance. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

LONDON HORTICULTURAL.

Very desirable for the family garden. Vines vigorous, bearing light green pods streaked with red. The bean is large, oval, cream colored, beautifully splashed with red, and has no superior, green shelled or dry. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

KENTUCKY WONDER.

A vigorous, good climber, very prolific, bearing in clusters, extremely long and very fleshy; succulent pods, round, thick and remarkably tender. A first-class pole variety. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.50.

DUTCH CASE KNIFE.

Good corn hill bean, very early; pods are long and flat; beans white; used green or dry. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

LAZY WIFE.

Long green pods of good quality; bean white. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

WHITE CREESE BACK.

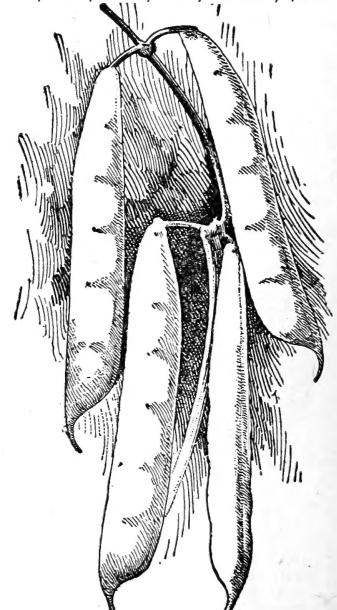
A good early green podded pole bean. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

Asparagus

This is the true "Asparagus Bean," not the so-called Asparagus put out by many seedmen. A very prolific sort, producing its long pods in large clusters. The pods, when young, are nearly round, of best flavor and are most excellent for snaps. This is one of the best and most profitable beans for the market gardener, the pods being so showy and produced in great abundance. Extensively used for canning. Pkt., 10c.; 1 lb., 25c.

SCARLET RUNNER.

A favorite as a snap bean and for its flowers, which are bright scarlet; seeds broad and kidney-shaped. Pkt., 10c.; 1 lb., 30c.

**Lima Beans****HENDERSON'S BUSH LIMA.**

A small Lima Bean; early and prolific; desirable for early use.

Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

BURPEE'S BUSH LIMA.

This is a dwarf form of the Large Lima, producing beans as large and as fine in quality as the pole varieties. It is also a heavy yielder.

Pkt., 10c.; 1 lb., 25c.; 10 lbs., \$2.00.

DREER'S BUSH LIMA.

A dwarf form of the Challenge Lima, having the same thick pods and large thick beans which make the Challenge so popular.

Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

LARGE WHITE POLE LIMA.

Vine tall growing, vigorous, but slender; pods borne in clusters; long, broad, very thin, dark green; beans large, ovoid, kidney-shaped, greenish white, flat. Pkt., 10c.; 1 lb., 20c.; 10 lbs., \$1.60.

GOLDEN CLUSTER WAX.

BEETS—For Table Use

CULTURE.—The Beet is hardy and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows of sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked twenty-four hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six to eight inches apart in the row. For field crop the rows should be far enough apart to permit the use of a horse cultivator.

P. S. Co's Market Gardener

This new extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape; as an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table. We have never known a market gardener to try it but who wanted it again.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 65c.



DETROIT DARK RED.

Detroit Dark Red Turnip

A fine beet for bunching for market; tops exceptionally small and uniformly upright. Roots are perfect turnip-shape, with small tap-roots. One of the deepest red beets. Quality is of the very best; sweet and tender; well worthy of a trial.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 60c.



Improved Early Blood Turnip

An extra selected stock of blood turnip, having larger, coarser tops and roots than the Detroit Dark Red, and requiring a considerable longer time to mature. Excellent for summer and autumn use.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 55c.

EDMAND'S EARLY BLOOD TURNIP.

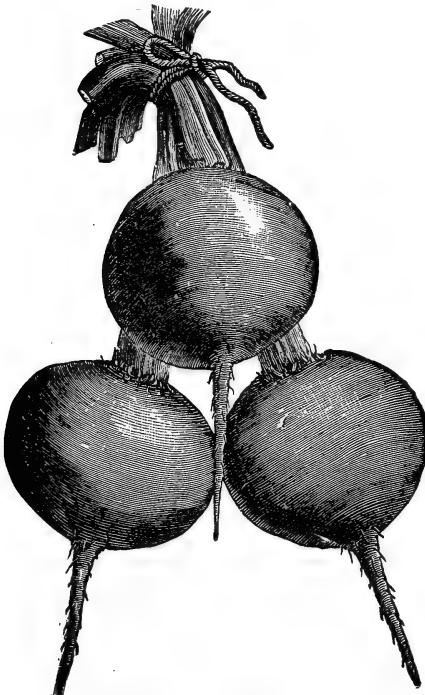
Dark red flesh, zoned with a lighter shade; very crisp and tender; keeps sufficiently well to be used as either a summer or winter variety.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 50c.

ECLIPSE.

This variety has become exceedingly popular, and is one of the best early sorts. It possesses all the qualities requisite in a first-class beet, and is of an uniform globular shape. The roots are of a bright, glossy red, fine-grained and delicious, with none of that earthy flavor so objectionable in many varieties.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 65c.



EARLY ECLIPSE BEET.

BEET SEED.

There is no crop where the quality of the seed used is of more importance than this. Our stock is raised by the very best growers, and we supply only the choicest strains.

P. S. CO.'S
MARKET GARDENERS.

EXTRA EARLY EGYPTIAN.

By many considered the best varieties for forcing, and is liked best by many market gardeners for the first early crop, being very early, with small top. Roots very dark red, rounded on top, but flat beneath, with very small tap roots.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 60c.

HALF LONG BLOOD.

A new variety of excellent quality. One of the very best for winter use; does not become woody and keeps equally as well as the Long Dark Blood. The root is smooth and handsome, and the flesh as brilliant in color and good in quality as the best Blood Turnip varieties. We advise our customers to give it a trial.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 60c.

Long Smooth Dark Blood

The leading late variety, keeping well all winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet.

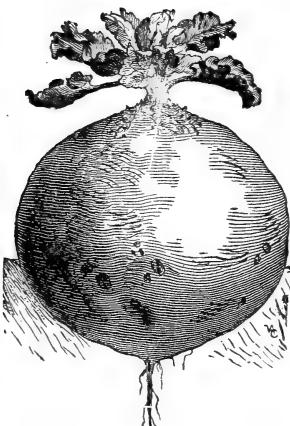
Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 60c.

SWISS CHARD, or SEA KALE BEET.

Cultivated exclusively for its leaves and leaf stalk, which are prepared and served similar to asparagus, and are tender and delicious. If cut frequently, the young leaves reappear and make excellent greens, taking the place of spinach.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 50c.

Sugar Beets and Mangel-Wurzels



ORANGE GLOBE.

These are grown extensively for stock feeding, and afford large quantities of fresh, nutritious and wholesome food for stock during the winter months, in connection with grain and dried forage. Sugar Beets are richer and sweeter than Mangels, but the latter will generally produce one-third to one-half heavier crops per acre, and hence are preferred by many farmers.

FRENCH WHITE SUGAR.

The sort most generally grown in France, as it combines, with heavy yield, a good percentage of sugar. It has produced 30 tons of beets to the acre, and contains from 10 to 13 per cent. of sugar. The largest yields known have been obtained with this variety.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

LANE'S IMPERIAL SUGAR.

This is an excellent variety and one of the best for stock feeding.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

VILMORIN'S IMPROVED SUGAR.

Very rich in sugar and does well on new lands.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 20c.; 1 lb., 40c.

GERMAN IMPERIAL WHITE SUGAR.

It gives the best results raised in sandy soil, free from alkali. Good for stock.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

GOOD SEEDS

Sept. 2, 1903.

Portland Seed Co.

We have planted your seeds this Spring, and had better results than with any others we ever tried.

MRS. B. E. ESTELL,
Woodville, Oregon.



KLEIN WANZLEBEN.

✓ YELLOW, or ORANGE GLOBE MANGEL.

Finest type of Yellow Globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine-grained renders it an excellent keeping variety. Well adapted to shallow soils.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

✓ YELLOW GIANT, INTERMEDIATE, LEVIATHAN, or GATE POST.

Roots long, olive-shaped, very large, growing over one-half out of the ground; flesh white, sweet and tender; tops bright green, comparatively small; neck small, short. We think this is perhaps the best of the yellow flesh beets, because its fine flesh never becomes woody, and its roots grow so well out of the ground that the crop is easily harvested.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

✓ YELLOW OVOID MANGEL WURZEL.

Similar to the Yellow Globe, but grows to a much larger size, and more of a half-long shape. Yields an enormous crop. One of the most desirable stock-feeding mangels.

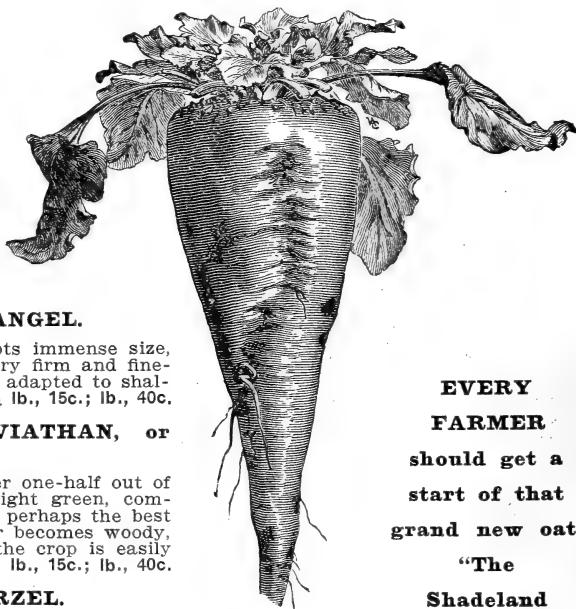
Pkt., 5c.; 2 oz., 10c.; 1/4 lb., 15c.; 1 lb., 35c.

KLEIN WANZLEBEN.

This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose. Our stock of seed is imported direct from one of the most careful German growers, and should be used where the best results are desired.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 20c.; 1 lb., 45c.

If you plant Beets in large quantities, write for special prices.

FRENCH
WHITE SUGAR.

EVERY FARMER
should get a start of that grand new oat,
“The Shadeland Wonder.”
See page 54.

Stock Beets or Mangel—Continued

Three Favorite Beets for Stock Feeding

New Mangel Half Sugar

A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beets seed; is much easier handled, keeps better and is in every way most valuable to the farmer. Roots large, ovoid in form, very smooth, with few rootlets; white in color, with small top.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 20c.; lb., 50c.

GOLDEN TANKARD.

Best for dairy farming. Considered indispensable among English dairy farmers; is stated by them that they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Other Mangels cut white, circled with yellow, but Golden Tankard is of a rich, deep yellow throughout. Early, hardy, and a heavy cropper; for on account of its shape the roots can be left standing close in rows.

Pkt., 5c.; 1/4 lb., 20c.; lb., 40c.

MAMMOTH LONG RED.

An improvement on the Long Red. It stands head and shoulders above all other varieties of Mangels; unequaled for yielding and feeding qualities. Grows to a very large size, weighing from 20 to 50 lbs.; and will yield 50 tons per acre with ordinary good cultivation. Thousands of Western farmers have grown our Mangel and call it the most profitable farm crop they ever tried. If you want large crops of large mangels of good quality, don't fail to try it. It is very uniform, smooth and of good shape. Should be grown in deep, loose soil.

Per Pkt., 5c.; 1/4 lb., 15c.; lb., 35c. By Express, not prepaid, 5 lbs., \$1.50; 10 lbs., \$2.50.

Write us for prices on large quantities.

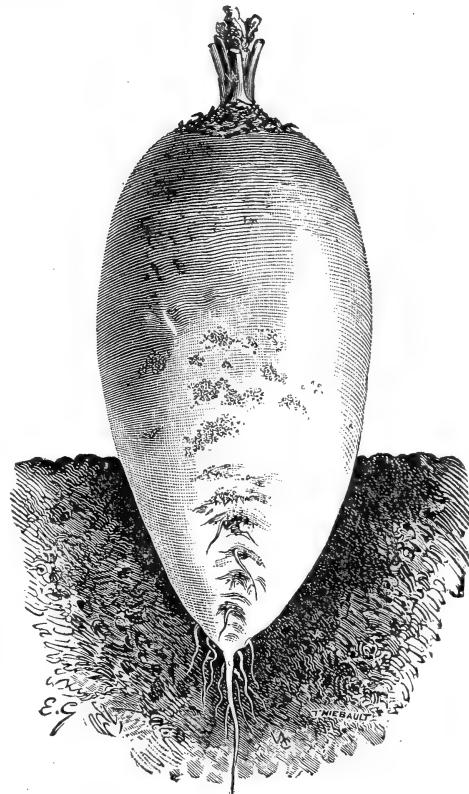
WELL PLEASED

March 28, 1903.

Portland Seed Co.

All seeds are at hand. I am well pleased with them. Those planted in hot bed or open ground are growing well. Wishing you deserved success, I am,

J. J. CLARK,
Woodburn, Oregon.



NEW MANGEL HALF SUGAR.

Brocoli

Produces heads in the autumn like cauliflower, but is more hardy. Sow about the middle of May; transplant in well enriched soil and manage the same as winter cabbage.



BROCOLI.

EARLY PURPLE CAPE.

A popular sort, hardy and heads well. The heads are large, of a brownish tint, and of excellent flavor.

Pkt., 5c.; oz., 35c.; 2 oz., 65c.; 1/4 lb., \$1.15.

LARGE WHITE FRENCH.

A valuable variety, with large white heads, firm and of good flavor.

Pkt., 5c.; oz., 35c.; 2 oz., 60c.; 1/4 lb., \$1.00.

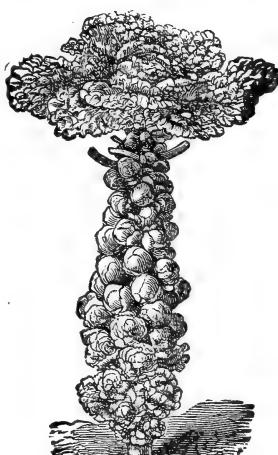
Brussels Sprouts

The plants, which are very hardy, grow two or three feet high, and produce from the sides of the stalk numerous little sprouts, which resemble very small cabbages, one or two inches in diameter. The leaves should be broken down in the fall, to give the little heads more room to grow. They should be treated in all respects like winter cabbage or kale.

DWARF IMPROVED.

A carefully grown strain, very hardy, and giving compact round sprouts of large size and good quality.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.



BRUSSELS SPROUTS.

For plants of Brocoli and Brussels Sprouts, see page 68.

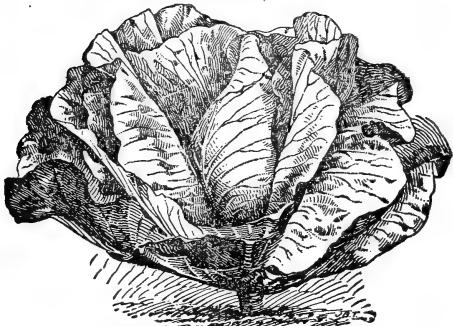
Cabbage



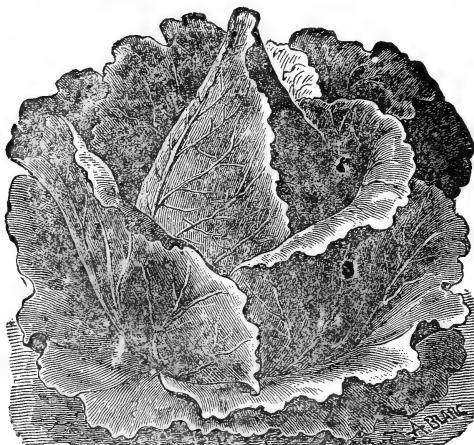
EARLY YORK.



EARLY SPRING.



EARLY WINNINGSTADT.



EARLY JERSEY WAKEFIELD.

CABBAGE PLANTS.

From January to August we aim to have on hand large quantities of Cabbage Plants. For prices see page 68.

CULTURE.—The requisites for complete success are: First—Good seed; there is no vegetable where the seed has more influence on the quality of the product than in this, and gardeners should always use the best procurable. Second—Rich, well prepared ground. Third—Frequent and thorough cultivation. A heavy, moist and rich loam is most suitable, which should be highly manured and worked deep. Cabbage is universally grown all over the country, and specific directions regarding the time and methods of planting applicable to all localities cannot be given. In general, the early sorts should be sown very early in hot beds, hardened off by gradually exposing them to night air, and as early as the ground is in good condition transplanted, setting eighteen to thirty-six inches apart, according to size of variety.

The late autumn and winter varieties may be sown from the middle of the last of spring, and transplanted when four to six inches high. Shade and water the late sowings in dry weather to get them up. It is important that the plants should not be crowded in the seed bed, or they will run up weak and slender, and be likely to make long stems.

Early Jersey Wakefield

The favorite Early Cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for wintering over and very early setting.

Stands today in an exalted position among early cabbages. It is grown more exclusively for market than any other early cabbage. It is always of good size, very solid, and has but few outside leaves; a reliable header, and always gives good satisfaction.

VERY SELECT SEED.

Pkt., 5c.; oz., 30c.; 2 oz., 55c.; 1/4 lb., 75c.; 1/2 lb., \$1.50; 1 lb., \$2.50.

Early Spring

THE EARLIEST FLAT-HEADED VARIETY.

A wonderfully compact plant, with few outer leaves, so that a great number of fine, solid heads can be produced on an acre. Although it does not come to full maturity as early as Jersey Wakefield, it becomes solid enough for use about as early, and is by far the best early sort for those markets that demand a large round or flat cabbage. The plant is vigorous, with short stem. The leaves are large, broad, and of peculiar light green color. The heads are oval and very large for the size of the plant, nearly equaling those of the later kinds.

Pkt., 5c.; oz., 30c.; 1/4 lb., 75c.; 1 lb., \$2.50.

EXTRA EARLY EXPRESS.

Produces fair sized heads in eighty to eighty-five days from sowing of seed.

Pkt., 5c.; 1 oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1 lb., \$2.00.

EARLY YORK.

Small, but very early; very popular sort.

Pkt., 5c.; 1 oz., 15c.; 2 oz., 25c.; 1/4 lb., 40c.; 1 lb., \$1.50.

Second Early Sorts

EARLY WINNINGSTADT.

A desirable kind, having conical, solid heads; a sure header under almost any conditions, and keeps better than most early varieties. Fine, and of excellent quality.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1 lb., \$2.00.

HENDERSON'S EARLY SUMMER.

About ten days later than the Jersey Wakefield. The head is round, and the largest of the early kinds; can be set close in the row as the outer leaves are small. It remains long without bursting, is firm and of the best quality.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 65c.; 1 lb., \$2.00.

EARLY DWARF FLAT DUTCH.

A medium early kind, much resembling the Early Drumhead. It grows low on the stem, and is a sure header; firm, fine-grained, tender and excellent. Keeps almost as well as the late kinds.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1 lb., \$2.00.

EARLY DRUMHEAD.

A standard medium early variety. Heads large, round, slightly flattened, and excellent for the family or market garden. It does not crack, and keeps well on in the winter.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1 lb., \$1.75.

FOTTLER'S IMPROVED BRUNSWICK.

This is without exception the best Early Drumhead variety in the market, and is used by the market gardeners to succeed in the earliest varieties; also for a late crop.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1 lb., \$2.00.

SURE HEAD.

Remarkable both for its certainty to head, and the ability to withstand drought. Compact, medium to large.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1 lb., \$2.00.

Cabbage, Second Early—Continued**SUCCESSION, or ALL SEASONS.**

Medium early; heads large, round, slightly flattened; grows low on the stem and resembles the Early Summer.
Pkt., 5c.; 1 oz., 25c.; 1/4 lb., 75c.; 1 lb., \$2.25.

GERMAN FILDERKRAUT.

Heads rather larger and more pointed than the Winnigstadt, which it resembles. It is of superior quality and highly esteemed for making kraut.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; lb., \$1.75.

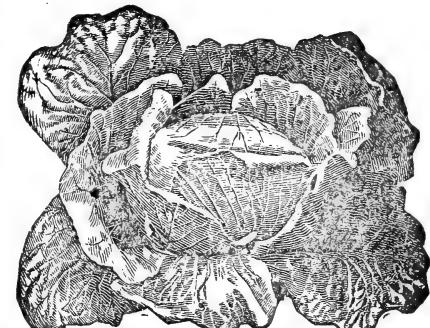
CHARLESTON, or LARGE WAKEFIELD.

Larger and a little later than the Early Jersey Wakefield, but having the same general shape.

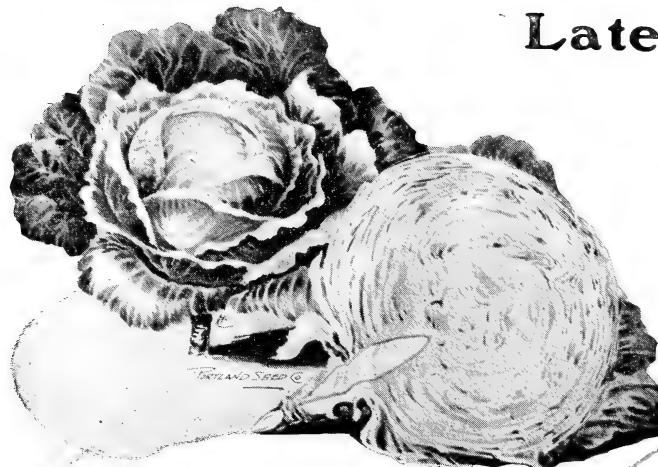
Pkt., 5c.; oz., 25c.; 2 oz., 40c.; 1/4 lb., 70c.; lb., \$2.50.

CABBAGE PLANTS.

We grow the leading varieties by the thousands and can furnish, in season, choice, hardy plants in any quantities. For prices see list, page 66.



SUCCESSION.

Late or Fall Sorts

DANISH BALL HEAD.

IMPROVED AMERICAN, or NETTED SAVOY

Very valuable variety, being of much finer flavor and quality than the best of other cabbage. It is particularly adapted for private use, where quality rather than quantity is desired.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

DRUMHEAD SAVOY.

Forms large and compact head, very tender and excellent in winter, delicious, rich flavor.

Pkt., 5c.; 1 oz., 20c.; 1/4 lb., 60c.; 1 lb., \$1.75.

Hollander**or Danish Ball Head**

This is one of the hardest cabbages in cultivation, and endures both frost and drought that would destroy other varieties.

Plants very hardy, rather long stemmed, but compact; the leaves are very smooth, but thick; the head is of medium size, round and very solid, being

The hardest heading cabbage we know of
and of the very best quality.

Matures quite late, keeps well and is considered by many the best cabbage to hold over for spring markets.

Pkt., 5c.; oz., 25c.; 2 oz., 40c.; 1/4 lb., 75c.;
lb., \$2.50.

Premium Late Flat Dutch

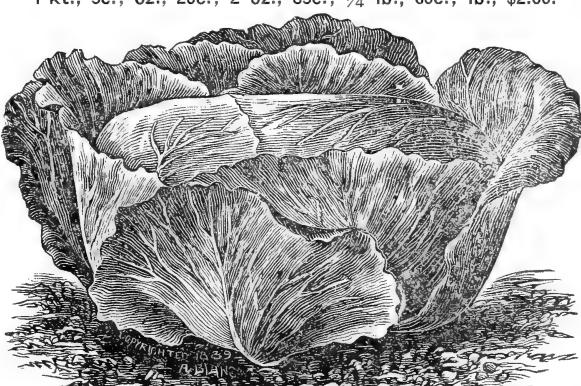
This is superior to any other late cabbage in cultivation, when large areas are planted for shipping. It possesses all the good qualities of the Late Flat Dutch, and is a sure header.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

MARBLEHEAD MAMMOTH DRUMHEAD.

The largest variety known; cultivated mostly on account of its enormous size, usually averaging thirty pounds, but sometimes attaining double that weight. It is hardy and a good keeper, but coarser and not as well flavored as most other kinds. Its common English name of Cow Cabbage indicates one of the uses of this variety.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; lb., \$2.00.



AUTUMN KING, OR WORLD BEATER.

Autumn King, or World Beater

A sure header, very solid, fine-grained and tender. It grows quicker than any other large cabbage and will produce more to the acre. Color dark green, with a slight bronze or brownish tinge to the outer leaves. The heads are remarkably thick through, and will attain a great weight. Has a short stem and grows near the ground.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$2.00.

STONE MASON MARBLE HEAD.

A large Drumhead variety, sure to head, fine grained, tender and remarkably sweet and delicious. It is very hardy, enduring severe frost and easily kept all winter.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/2 lb., 60c.; 1 lb., \$2.00.

Cabbage, Late or Winter—Continued

PREMIUM LATE DRUMHEAD.

PREMIUM LATE DRUMHEAD.

An improvement on the Large Drumhead, grows lower on the stem, is larger and matures earlier, but keeps quite as well, and has no superior in any respect for family and marketing purposes, either for medium, early or late crop. The seed we offer is unsurpassed by any in the market.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1 lb., \$1.75.

RED DUTCH.

Used for pickling. The heads are very fine and remarkably sure heading.

Pkt., 5c.; 1 oz., 20c.; 1/4 lb., 65c.; 1 lb., \$2.00.

MAMMOTH ROCK RED.

True. This is the best, largest and most reliable heading red cabbage. The head is large, round, solid and of a deep red color.

Pkt., 5c.; 1 oz., 20c.; 1/4 lb., 60c.; 1 lb., \$2.00.

For Cabbage and all Vegetable Plants see Price List, page 68.

Cress**CURLED, or PEPPER GRASS.**

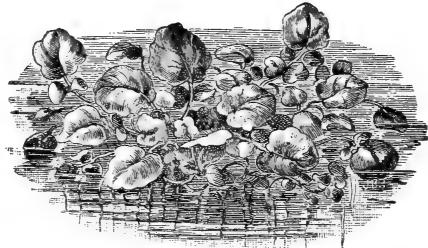
This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early, but repeated sowings are necessary to secure a succession. Keep off insects by dusting with Pyrethrum Powder.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 50c.

TRUE WATER.

This is quite distinct from the last, and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads, and should be planted wherever a suitable place can be found. The seed should be sown and lightly covered in gravelly, mucky lands, along the borders of small, rapid streams, and the plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots.

Pkt., 5c.; oz., 35c.; 1/4 lb., \$1.00.



WATER CRESS.

Carrots

CULTURE.—While a sandy loam, made rich by manuring the previous year, is the best soil for the carrot, any good land, if thoroughly and deeply worked, will produce satisfactory crops. When it is possible to do so, it is advisable to sow as early in the spring as the ground is fit to work, though good crops may, in this latitude, be grown from sowing as late as June 15; but one is less certain of good crops from such late planting. For table use, sow the smaller kinds as early as practicable, in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart, using from one and one and a half to three pounds to the acre, according to the distance between rows. Cover one-half to one inch deep, and see to it that the soil is well firmed above the seed.

EARLIEST SHORT HORN, or FRENCH (Forcing).

The earliest variety in cultivation, and best suited for forcing. Roots reddish brown, globular and about two inches in diameter; should be used before full grown.

Pkt., 5c.; oz., 15c.; 1/4 lb., 30.; 1 lb., 90c.

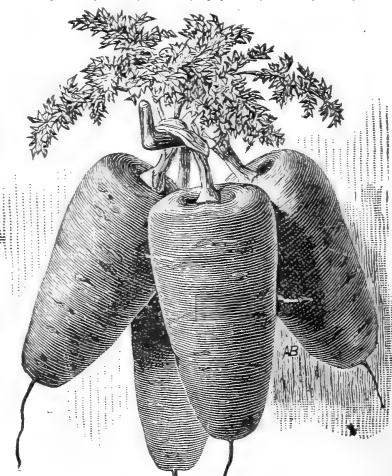


FORCING.

EARLY SCARLET HORN.

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

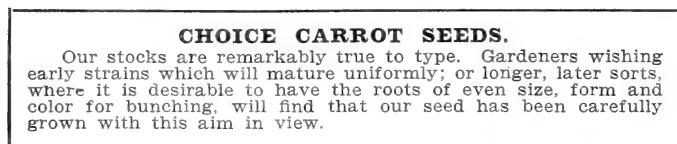
Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; 1 lb., 85c.



CHANTENAY.

CHOICE CARROT SEEDS.

Our stocks are remarkably true to type. Gardeners wishing early strains which will mature uniformly; or longer, later sorts, where it is desirable to have the roots of even size, form and color for bunching, will find that our seed has been carefully grown with this aim in view.



✓ Carrots—Continued

✓ EARLY HALF LONG SCARLET.

(Stump Rooted.)

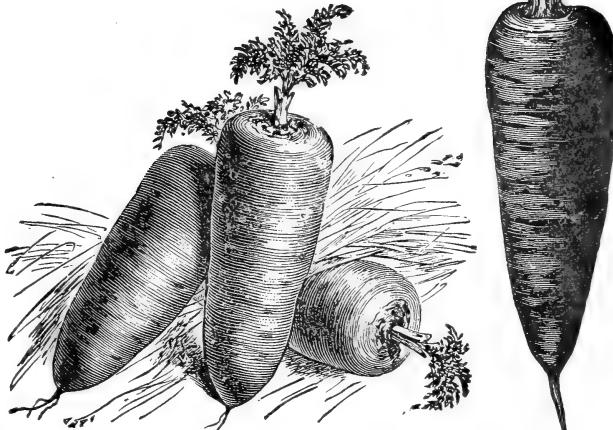
Excellent for early market or table use; of medium size; flesh bright scarlet, brittle and of fine flavor.

Pkt., 5c.; oz., 10c.; 1/2 lb., 25c.; lb., 85c.

✓ Danvers Half Long

Grown largely on account of its productiveness and adaptability to all classes of soil. Tops medium sized, coarsely divided. The smooth and handsome roots are orange, of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender, deep orange in color. Although the roots of this variety are short, they produce as large bulk as the longer field sorts, and are more easily harvested.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 70c.



DANVERS HALF-LONG.

LONG ORANGE.

✓ Oxheart

A thick carrot, five or six inches long and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor; a variety we can recommend to all market gardeners.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

✓ IMPROVED LONG ORANGE.

The most popular of the older sorts for farm use on mellow soil. An improvement obtained by years of careful selection of the best formed and deepest colored roots. It grows to a large size, some specimens averaging twelve inches in length. Enormous crops can be grown under fair culture; among the best varieties for feeding stock.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 65c.

✓ IMPROVED SHORT WHITE.

We think this distinct variety is destined to take first rank as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Roots half long, smooth, very heavy at the shoulder, but tapering regularly to the point; color light green at the crown, pure white below; flesh rich white, solid, crisp and of excellent flavor. This variety is a real acquisition as a heavy yielding, easily harvested white carrot, and is the best of this class.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.

LARGE WHITE BELGIAN.

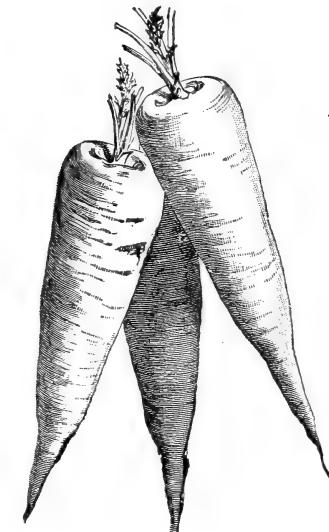
Extensively grown for stock feeding. The most productive of all. Grows much above ground, so that the entire crop can be pulled by hand. The White Belgian has recently been much improved, in the same manner as the Finest Long Orange, and is now larger and of finer quality than formerly. The stock we offer has no superior.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.

P. S. CO.'S YELLOW GIANT.

This new Carrot originated at the Sydney, Australia, Experimental Station, and has proved itself to be the earliest and most productive stock carrot yet produced. The average weight of this new sort varies from 10 to 13 lbs. each, and a crop of at least 50 tons per acre is what you may look for. This new Carrot is half long variety, with an immense broad shoulder. The Carrot penetrates less than one-half the depth into the ground. The importance of this point should not be overlooked, as it saves about one-half the expense in the harvesting of the crop. The color is a bright yellow, and is perfection itself for giving the proper color to your butter. Ten dollars a pound is cheap for this valuable novelty, but we would not ask our customers to pay it. Every dairyman who wants a big crop of carrots of the right quality and easy of culture, should plant our Yellow Giant. Our stock is very limited this season.

Pkt., 10c.; oz., 20c.; 1/4 lb., 50c.; lb., \$1.50



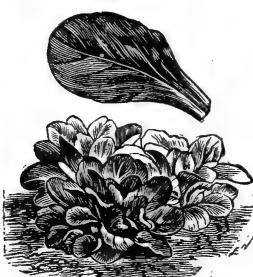
WHITE BELGIAN.

Corn Salad

FETTICUS, or LAMB'S LETTUCE.

A refreshing salad, used extensively in winter and spring as a substitute for lettuce. It is often cooked like spinach. Sow in drills one foot apart, in the spring or fall. On the approach of cold weather, cover with straw or coarse litter.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.



CORN SALAD.

Collards TRUE GEORGIA.

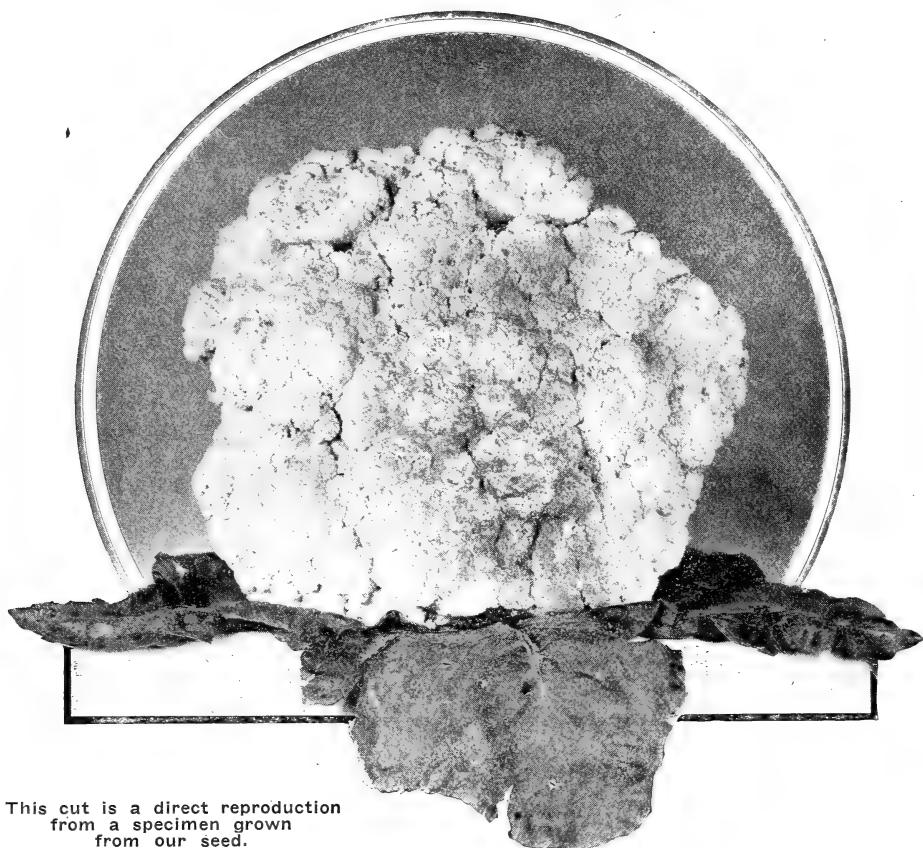
Used as "greens" mainly in the South and West. As the leaves are pulled off others grow in their places.

Pkt., 5c.; oz., 15c.; 1/4 lb., 30c.

Gardeners who buy Carrots in quantities should write for special prices.

To double the yield of Carrots, use our DIAMOND BRAND FERTILIZERS. See page 82.

Cauliflower



This cut is a direct reproduction
from a specimen grown
from our seed.

P. S. CO.'S SNOWBALL.

CULTURE.—The Cauliflower succeeds well in any soil where cabbage will grow. It delights in a rich soil and abundance of water. By sowing the early varieties in a hot-bed in February or March, or later in a cold frame, fine heads can be obtained quite early. For a later supply sow seed in a prepared bed in May, choosing a cool, moist place. When large enough, transplant, making the rows about two and a half feet apart and eighteen inches between the plants. Transplanting should be done in moist weather. In dry seasons the crop must be watered.

P. S. Co's Mt. Hood Brand Early Snowball

We have at last succeeded in obtaining a grand new strain of Snowball Cauliflower, which we shall put up in sealed packages only, under our own label. This strain is grown for us by one of the few expert cauliflower growers, and is the result of a series of experiments which has brought this seed up to the highest state of perfection.

This seed will produce those handsome, large, solid white heads that always bring the gardener big profits.

We recommend this for both early and late planting. Put up in sealed packages only.

Per Pkt., 25c.; $\frac{1}{2}$ oz., \$2.00; 1 oz., \$3.50.

✓ THORBURN'S GILT EDGE EARLY SNOWBALL.

We have sold this very select strain for several years, and it has always given good satisfaction. Put up in 1 oz. sealed packages only. At \$3.50 each.

✓ EARLY SNOWBALL.

Ordinary strain Pkt., 5c.; 1 oz., \$1.25; $\frac{1}{4}$ lb., \$4.00.

✓ EARLY PARIS.

A popular early sort. The heads are large, white, tender and excellent. Early and compact growing.

Pkt., 5c.; oz., 75c.; 2 oz., \$1.25; $\frac{1}{4}$ lb., \$2.00.

We have Cauliflower Plants in season, see price list, page 68.

CAULIFLOWER SEED.

Don't buy the cheap strains of Cauliflower Seed if you want to raise those handsome white heads. We would rather have one dozen plants from selected strains than one hundred from the ordinary. There is no finer seed grown than our Mt. Hood Snowball. Liberal applications of Nitrate of Soda and Kainit in cauliflower culture are of great service.

Selected Extra Early Dwarf Erfurt

Remarkable for reliability in heading. Very dwarf, with solid, pure white heads of superior quality. If planted the first of March, heads nine to twelve inches in diameter will be ready early in June.

Pkt., 10c.; $\frac{1}{4}$ oz., 65c.; oz., \$2.00.

✓ EARLY ERFURT.

Ordinary strain Pkt., 5c.; 1 oz., 75c.; $\frac{1}{4}$ lb., \$2.50.

✓ LARGE ALGIERS.

A valuable late sort, sure to head, of the best quality and very popular with market gardeners everywhere. Plant large, but of upright growth, the leaves protecting the heads so that they will endure uninjured a frost that would ruin other sorts. One of the very best of the late varieties.

Pkt., 5c.; oz., 80c.; 2 oz., \$1.50; $\frac{1}{4}$ lb., \$2.50.

✓ VEITCH'S AUTUMN GIANT.

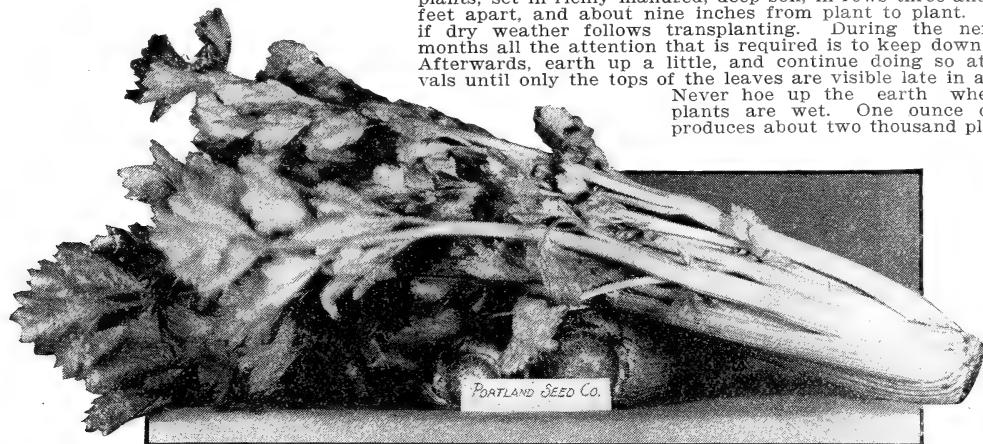
The heads are white, large, compact and thoroughly protected by foliage.

Pkt., 5c.; oz., 50c.; 2 oz., 90c.; $\frac{1}{4}$ lb., \$1.50.

Celery

CULTURE.—Sow the seeds early in a hot-bed or cold frame. As soon as the plants are three inches high, transplant in a prepared border, setting them four inches apart. When grown six inches, and fine, stocky plants, set in richly manured, deep soil, in rows three and a half feet apart, and about nine inches from plant to plant. Water if dry weather follows transplanting. During the next two months all the attention that is required is to keep down weeds. Afterwards, earth up a little, and continue doing so at intervals until only the tops of the leaves are visible late in autumn.

Never hoe up the earth when the plants are wet. One ounce of seed produces about two thousand plants.



LARGE WHITE SOLID.

White Plume

THE LEADING WHITE CELERY.

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of its inner leaves and heart are white, so that by closing the stalks either by tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or "earthing up." It is the earliest Celery known.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$2.00.

Golden Self-Blanching

This is no doubt the best Celery for early market uses. Plants of a yellowish green color when young, but as they mature the inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier.

Pkt., 5c.; oz., 35c.; 1/4 lb., \$1.00.

GIANT PASCAL.

The largest variety grown; of fine, nutty flavor, and very easily blanched; deservedly popular for fall and winter use.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

DWARF WHITE SOLID.

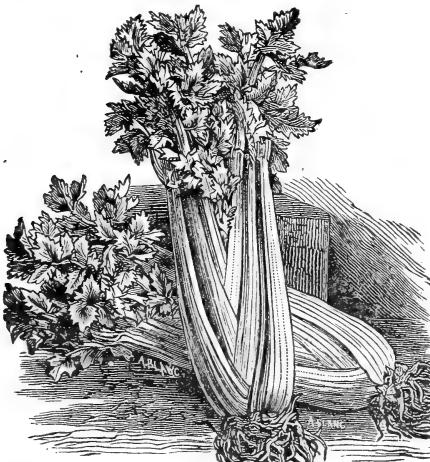
Said to keep in good condition later in the season than any other variety.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.50.

PERFECTION HEARTWELL.

The finest and largest of the winter varieties.

Pkt., 5c.; oz., 20c.; 1/4 lb., 50c.; lb., \$1.50.



GOLDEN DWARF.

LARGE WHITE SOLID.

Of vigorous growth; having the fine nutty flavor for which celery is so much admired more fully developed than most varieties. Very white, crisp, tender, and fine flavored. One of the best late varieties.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$2.00

BOSTON MARKET.

Vigorous grower; very branching; excellent keeper; remarkably tender, crisp and solid. Best variety for light soils; late keeper.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.35.

GOLDEN HEART, or GOLDEN DWARF.

A distinct variety of sturdy, dwarf habit. It is solid, an excellent keeper, and of fine, nutty flavor. The heart is of a light yellow when blanched; an exceedingly showy and desirable variety.

Pkt., 5c.; oz., 15c.; 1/4 lb., 45c.; lb., \$1.50.

PINK PLUME.

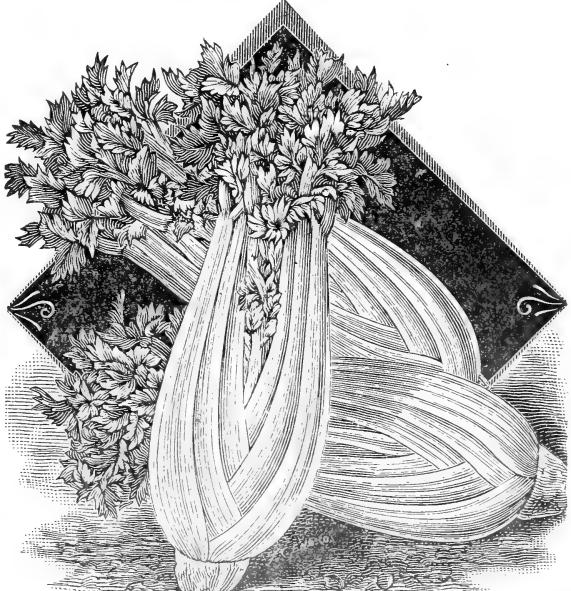
The same as White Plume, except in color.

Pkt., 5c.; oz., 20c.; 1/4 lb., 65c.; lb., \$2.25.

CELERY SEED.

For flavoring.

1 lb., postage paid, 35c.



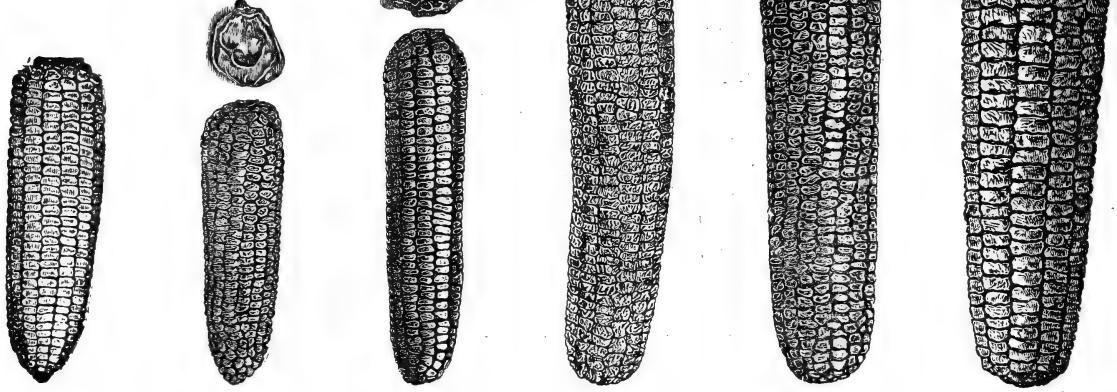
WHITE PLUME.

FOR CELERY PLANTS, see Vegetable List, page 68.

Corn—Sweet or Sugar

If ordered sent by mail, add 10c. per lb. for postage.

FOR CORN PLANTERS
See page 74.



CORY.

CROSBY'S.

EY FORDHOOK.

EY. MINN.

EARLY EVERGREEN.

STOWELL'S EVERGREEN.

CULTURE.—Select a warm soil, if possible, especially for the earlier varieties, which should not be planted before the middle of May. Successive plantings should be made every two weeks till July. Plant in hills, three or four feet apart, in thoroughly manured soil. One quart to two hundred hills; ten quarts to an acre.

Corn by mail is 10c. extra per pound.

Mammoth White Cory

Largest and Best Early Sweet Corn.

The stalks are no larger than those of the White Cob Cory, but each stalk furnishes two or more large, fine shaped ears, which are fit for use before those of most other sorts. The ears are twelve-rowed, very symmetrical and handsome, with no opening between the rows at the base. The grain is large, broad, very white and of remarkably good quality for such an early sort. The size and beauty of this variety gives it ready sale, even when the market is over-stocked.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

Early Fordhook

This is the largest-eared extra early true Sweet Corn, averaging seven inches in length. It is two to three days earlier than the Cory, and has both grains and cobs of pure white coloring. The ears are eight-rowed with quite small cob and deep grains. While similar in growth it is greatly superior to the Cory in sweetness of flavor.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.10.

Early Evergreen

The Best Second Early Sweet Corn.

As is well known, the famous Evergreen Sweet Corn originated over twenty years ago, but while it is the best variety of late Sweet Corn, no effort has ever been made to improve it in earliness until now. In the New Early Evergreen we have a selection possessing every good quality of Stowell's Evergreen, and resembling it in every respect, except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market ten to fourteen days earlier. It is certainly a valuable addition to the corn list, and we advise all our customers to try this variety.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

KENDEL'S EARLY GIANT.

Very early, and yet the ears grow to a remarkable size, measuring 8 to 10 inches; white cobs and kernels, sweet and tender; good eating qualities.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.00.

WHITE COB CORY.

An improvement on the Red Cobbed Cory, as well as being equally early. The ears are larger and it has the further advantage of having both a white cob and a white grain. A splendid market garden variety, and excellent for the table.

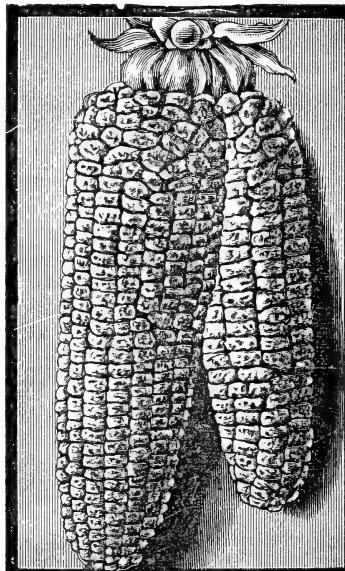
Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

Early Minnesota

This old and deservedly popular variety is one of the best early sorts for the market and the private garden.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.10.

If wanted by mail add 10c. per lb. for postage.



MAMMOTH WHITE CORY.

EXTRA EARLY CORY. (Red Cob.)

One of the earliest sweet varieties. When ripe the grains have a peculiar yellowish pink color.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

STOWELL'S EVERGREEN.

Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive, and the best late variety for general use.

Pkt., 10c.; 1 lb., 15c.; 10 lbs., \$1.25.

Sweet Corn—Continued

If wanted by mail add 10c per lb. for postage.

Standard varieties well and favorably known.

		Per lb.	Per 10 lbs.
✓ Adams' Extra Early.	Not sugar corn; small ears for early use	10c.	.90
✓ Black Mexican.	Black grains, sweet and delicious, fine for home use	15c.	1.20
✓ Crosby's Extra Early.	Fair-sized ears; of excellent quality	10c.	.90
✓ Country Gentleman.	The sweetest and most tender of all Sweet Corns	15c.	1.15
✓ Mammoth Sweet.	Very large, white grain; early and productive	15c.	1.10
✓ Moore's Early Concord.	Grains deep, of fine quality; popular for market	10c.	.90
✓ Old Colony.	Large growing variety much prized	10c.	.90
✓ Perry's Hybrid.	Very early and of large size; valuable for market	10c.	.90
✓ Late Mammoth.	The largest ears of all, rich, sweet and superior	15c.	1.10
✓ Fodder Sweet Corn.	Mixture for soiling and green fodder	10c.	.90
✓ White Rice.	Best variety of popping corn	10c.	.80

Field Corn

If ordering by mail add 10c. per lb. for postage. Price per 100 lbs. on request.

Field Corn is now recognized as one of the leading crops for fodder on the Pacific Coast. It is cut green and packed in silos, making an excellent green feed, particularly adapted for milch cows.

KING PHILIP.

An early Red Corn; well acclimated and well known.
Lb., 10c.; 10 lbs., 65c.

EARLY WHITE FLINT.

Productive, early and of beautiful appearance.

1 lb., 10c.; 10 lbs., 60c.

LEAMING (Early).

An early selected variety of Yellow Corn, small grain, weighty, productive. 1 lb., 10c.; 10 lbs., 55c.

WHITE CAP YELLOW DENT.

This Corn combines more solid merit than any other, being suitable for all climates and soils where Corn can be expected to grow. Ears large, and mature early.

1 lb., 10c.; 10 lbs., 60c.

PRIDE OF THE NORTH, or YELLOW DENT.

Recommended, after repeated tests by the Agricultural College, as the best for Eastern Oregon, Washington and Idaho. A quick growing dent variety, thriving well where the summers are not very long. The kernels are of a beautiful golden color.

1 lb., 10c.; 10 lbs., 55c.

MINNESOTA KING (Dent).

Recommended by the Agricultural College as the best variety for Western Oregon and Washington. Smallest cob and longest grain. The ears are uniformly well filled out, and it will make more shelled corn to a given bulk of ears than any other variety. It is a beautiful golden yellow and a good yielder.

1 lb., 10c.; 10 lbs., 60c.

CHAMPION WHITE PEARL.

A large white late dent variety, pearly white kernels. This variety is very popular with our dairymen on account of the great amount of green feed it makes.

1 lb., 10c.; 10 lbs., 55c.

EARLY CANADA (Flint).

This is an eight-rowed Yellow Flint Corn; early and very productive.

Lb., 10c.; 10 lbs., 55c.

IOWA SILVER MINE.

A medium early silver white dent Corn; fine.

1 lb., 10c.; 10 lbs., 60c.

WISCONSIN WHITE DENT.

A yellowish white dent, of extreme earliness.

1 lb., 10c.; 10 lbs., 60c.

LEGAL TENDER.

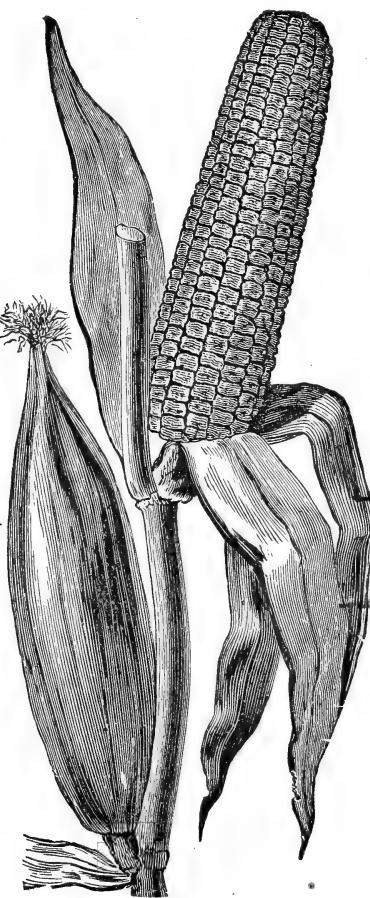
A large golden yellow "Dent" variety. A strong grower and a good yielder.

1 lb., 10c.; 10 lbs., 55c.

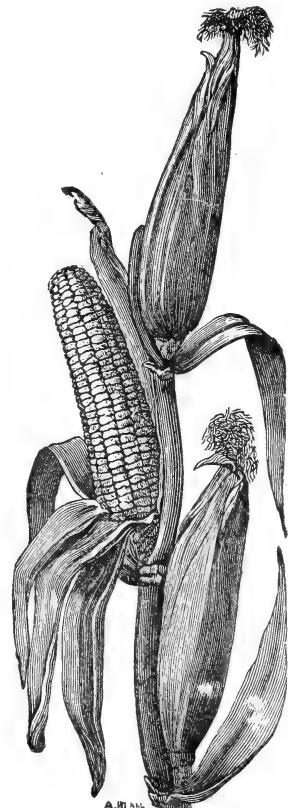
BUY A CORN PLANTER.

Save time and seed.

See page 74.



MINNESOTA KING.



EARLY CANADA.

Cucumbers

CULTURE.—Cucumbers need a warm, sandy soil, and should not be planted in open ground until the weather is settled and warm, as otherwise they will not thrive. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. Sprinkle the young plants with fine ashes, plaster or air-slaked lime, to protect them from bugs. As fast as the cucumbers attain suitable size they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vine's fruitfulness. The fruit should be carefully shaded, as exposure to the sun causes the flesh to become bitter and tinted with green. When preparing cucumbers for the table all flesh so affected should be removed.

✓ **EARLY CLUSTER.**

Vine vigorous, producing the bulk of the crop near the root and in clusters. Fruit short, with uniformly thick end, dark green, but paler at blossom end. A very productive sort.

Pkt., 5c.; oz., 25c.; 1/4 lb., 65c.; lb., \$2.00.



BOSTON PICKLING.



EARLY CLUSTER.

✓ **BOSTON PICKLING, or GREEN PROLIFIC.**

A distinct variety, very popular for pickles. Fruit short, very smooth and symmetrical, but pointed at each end; bright green and a great producer.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.25.

✓ **EARLY SHORT GREEN, or EARLY FRAME.**

An excellent sort both for table use and for pickling. Plants very vigorous and productive. Fruit straight, handsome, small at each end, bright green, lighter at the blossom end, with crisp, tender flesh, and makes excellent pickles. Comes into use a little later than the Early Cluster and keeps green a long time. Our stock is very superior.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.25.

✓ **PEERLESS, or EARLY WHITE SPINE.**

One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome; light green, with a few white spines.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.25.

Feb. 9, 1903.

Portland Seed Co.

I think your seed gives better satisfaction than any others I have ever planted.

MR. A. KAUFFMAN,
Needy, Oregon.



COOL AND CRISP.

Copyright 1895 W.M.A.C.

SHORT GREEN.

Copyright 1895 W.M.A.C.

✓ **Japanese Climbing**

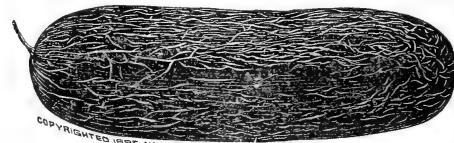
The vines are of a healthy, vigorous growth, with a rich dark green foliage, and throw strong, grasping tendrils which enable it to climb trellis, wire netting, brush, or any other suitable support. It bears abundantly throughout the season, while the climbing habit enables the fruit to grow perfectly straight. From 12 to 16 inches in length. The cucumbers are thick, tender and of delicate flavor.

Pkt., 10c.; oz., 30c.; 1/4 lb., 90c.

✓ **Best Long Green**

The leading large variety. Fruit from ten to twelve inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer the "Best Strain" that will grow long and uniform in shape.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.50.



LONG GREEN.

Market gardeners should write for special prices.

Celeriac or Turnip-Rooted Celery



CELERIAC.

LARGE, SMOOTH PRAGUE.

An improved form of turnip-rooted Celery; round, smooth, with very few side roots. This is the largest variety and one of the very best.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.

Chervil CURLED.

This plant is used for flavoring soups and salads, and has a strong perfume. Pkt., 5c.; oz., 15c.; 1/4 lb., 30c.

Endive

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

GREEN CURLED.

Standard sort for fall and winter. Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.

WHITE CURLED.

A beautiful variety, with curled, mossy leaves, for early use.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 40c.

BROAD LEAVED BATAVIAN (Escarole).

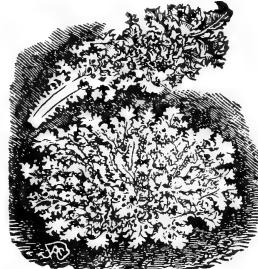
Has broad thick leaves, which form a large loose head.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 40c.

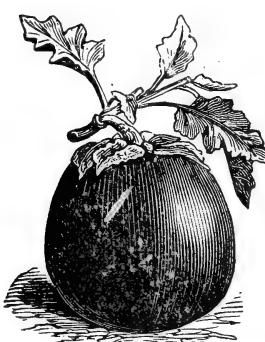
CHAMPION MOSS CURLED.

A compact growing, finely cut and much curled variety, of a bright green color. Owing to its fine color and density of foliage, it is much sought after.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.



WHITE CURLY ENDIVE.



Egg Plant

Should be started in a hot-bed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

EARLY LONG PURPLE.

The earliest and hardest, very productive; fruit from 6 to 10 inches long.

Pkt., 5c.; 1 oz., 30c.; 1/4 lb., 85c.

NEW YORK IMPROVED, LARGE PURPLE.

The leading market variety. Large, round, dark, excellent, and the most productive.

Pkt., 5c.; 1 oz., 35c.; 1/4 lb., \$1.00.

BLACK PEKIN.

Oval round, of medium size, very dark, glossy and handsome.

Pkt., 5c.; 1 oz., 30c.; 1/4 lb., 80c.

For EGG PLANTS, see Vegetable Plants, page 68.

NEW YORK IMPROVED.

Garlic Used same as onions. Per lb., 15c.; postpaid, 25c.

Portland Seed Company.

Please send me enclosed list of seeds. First lot of seeds I got are all growing fine and I am well pleased. Yours truly,

MRS. ANNA WISE,
Chenoweth, Washington.

Kale or Borecole

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage; is very hardy, being improved by frost.



TALL SCOTCH.

SIBERIAN (German Greens).

A variety extensively grown for winter greens. It is uniformly dwarf, green curled.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 30c.

TALL GREEN CURLED SCOTCH.

Grows about two feet high; leaves dark green, curled and wrinkled; very hardy, and is improved by a light frost.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.

HALF DWARF MOSS CURLED.

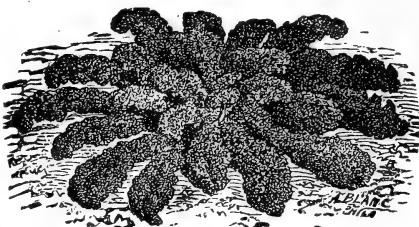
An intermediate form, which seems to possess all the merits of both the tall and dwarf sorts. It forms a medium-sized head of nicely curled leaves, which are kept well off the ground, but at the same time so compact as not to suffer from frost.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.

DWARF GREEN CURLED SCOTCH.

Rarely exceeding 18 inches in height, but spreading out under good cultivation to three feet in diameter; leaves beautifully curled and bright green.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.



DWARF CURLED KALE.

Kohl Rabi

The Kohl Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of both. The edible part is a turnip-shaped bulb formed by the swelling of the stem. When used for the table this should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy.



KOHL RABI.

EARLY WHITE VIENNA.

Very early, small handsome white bulb. Best early variety for the table.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.

EARLY PURPLE VIENNA.

Nearly identical with the last, except in color, which is a bright purple, with the leaf stems tinged with purple.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

Leek

The Leek belongs to the onion family. Prized for soups. Cultivation similar to that of onions, but hill up about the neck to blanch it.

LARGE ROUEN, or AMERICAN FLAG.

A favorite large American market sort.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.25.

MONSTROUS CARENTON

Rather larger than the Flag, but very tender and mild on account of its rapid growth.

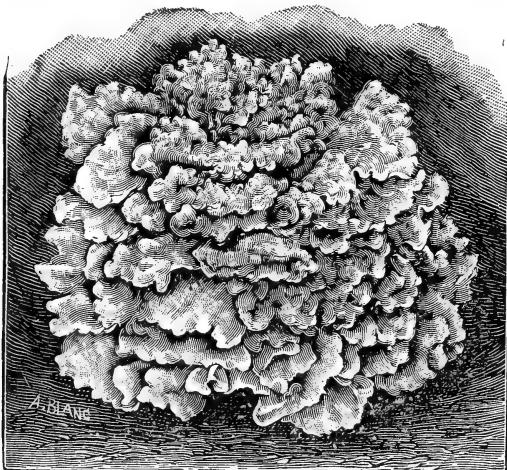
Pkt., 5c.; 1 oz., 20c.; 1/4 lb., 50c.; 1 lb., \$1.50.



LARGE ROUEN LEEK.

Lettuce

CULTURE.—Lettuce will thrive in any good garden soil and requires so little care that all who have the ground at their disposal should raise enough for their own use, and especially as the quality depends almost entirely on its crisp freshness.



GRAND RAPIDS.

Grand Rapids

FOR EARLY FORCING.

As a lettuce for green house forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot, and standing for some days after being fit to cut. The plant is upright and forms a loose head or cluster of large, light yellowish-green leaves, slightly crimped and blistered and rather thin. It will stand shipping long distances better than most sorts.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.25.

The Morse

White seeded, new and one of the finest varieties for forcing in either cold-frame or hot-house. A trial will prove its merits.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.25.

Early Prize Head

SEED WHITE.

This old standard sort still stands at the head of the large, thin leaved, clustering varieties. The very large leaves are savoyed or crimped, bright green, tinged with red, and are exceedingly tender, crisp and sweet, forming a large, loose head. This variety is one of the very best for the garden, but is not a good sort to ship long distances.

Pkt., 5c.; oz., 10c.; 1/4 lb., 35c.; 1 lb., \$1.00.

BLACK SEDED SIMPSON.

Forms a close compact mass of curly leaves of a yellowish green.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; 1 lb., \$1.00.

LARGE DRUMHEAD.

One of the largest heading kinds, but the heads are not as solid as the Hanson or Deacon.

Pkt., 5c.; oz., 15c.; 1/4 lb., 30c.; 1 lb., 90c.

Lettuce—Continued**Hanson**

THE LEADING HEAD LETTUCE.

(Improved Hard-Heading Stock.) We can recommend this as one of the very best. Heads green outside and white within; grows to a remarkable size, very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.00.

SIMPSON'S EARLY CURLED

A leading market variety used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.00.

Early Tennis Ball

The plant is small, of rapid growth, and should be used as soon as large enough, as it quickly runs to seed. Leaves dark green, thick and crisp. One of the best for growing under cover, and for forcing.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.00.

DEACON.

While this does not make as large a head as some others, the heads formed are very solid and of excellent flavor, and remain in condition for use as long as any variety in cultivation. Plant medium sized, with very few outer leaves, which are deep green and very thick, while the inner ones blanch to a bright yellow and are exceedingly well flavored, crisp and tender. This is certainly one of the best varieties for summer use.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.25.

Philadelphia Butter

SEED WHITE.

Many prefer a large growing, thick leaved, smooth, rich flavored lettuce, and to meet this demand we present this sort. Plant dark green, with many nearly round, thick leaves, formed into a very solid, round head, which stands a long time without running to seed. Leaves very thick, folded or puckered at the base, the inner ones blanched to a rich yellow color, and exceedingly rich and nutty in flavor.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.00.

TILTON'S WHITE STAR.

Forms a large, loose head, of excellent quality, which blanches well. The leaves are broader, thicker and darker than the Black Seeded Simpson, and it grows larger and more rapidly.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; 1 lb., \$1.10.

BROWN DUTCH.

Forms a large, solid head, sweet, tender, and of good flavor. Outer leaves tinged with brown. Very hardy.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 30c.; 1 lb., \$1.00.

WHITE PARIS COS.

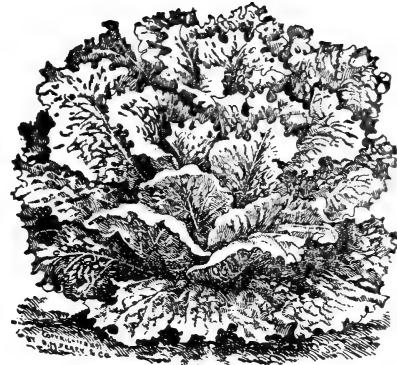
A distinct variety, forming oblong, upright heads, largest near the top. It is hard, tender and crisp, and does not run to seed so quickly as other Cos varieties.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 35c.; 1 lb., \$1.00.

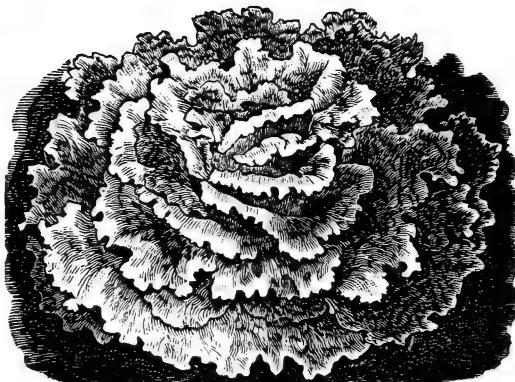
ALL SEASONS.

A magnificent new variety, forming solid heads of enormous size, almost as large as a Flat Dutch Cabbage, very tender. It is slow to seed, and is one of the very best all-head sorts ever introduced. Exceedingly profitable for market gardens.

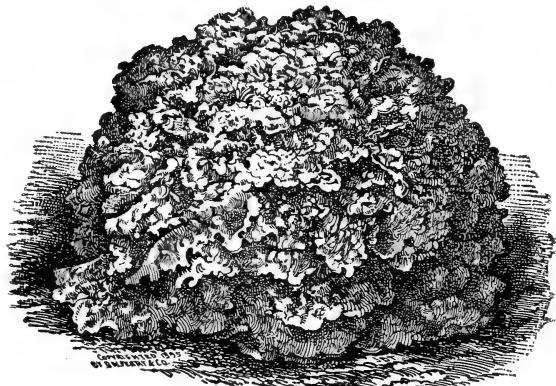
Pkt.. 5c.; oz., 15c.; 1/4 lb., 35c.; 1 lb., \$1.00.



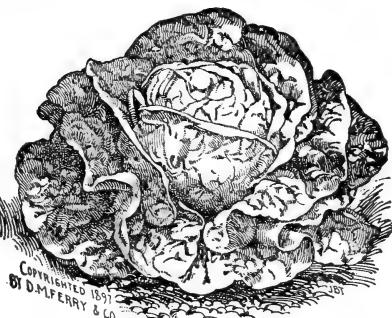
THE MORSE.



SIMPSON'S EARLY CURLED.



PRIZE HEAD.

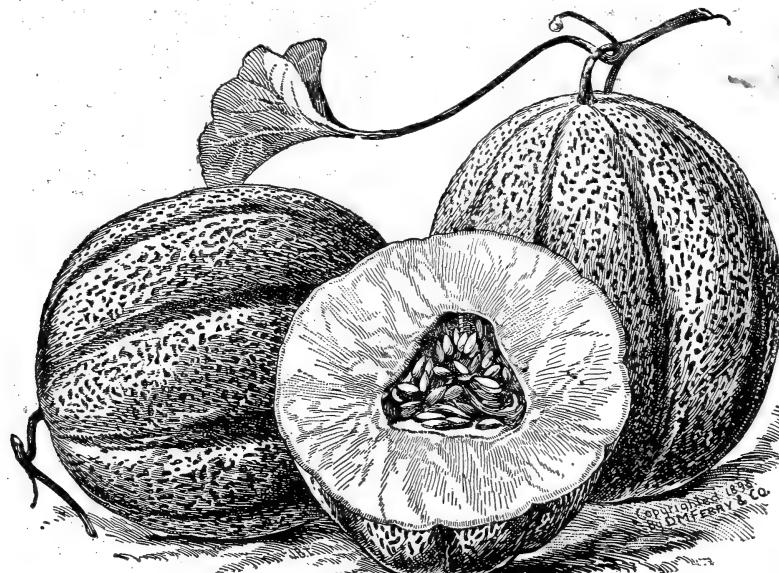


PHILADELPHIA BUTTER.

Musk Melons

CULTURE.—Cultivate as recommended for cucumbers, except that the hills should be six feet apart. Rich earth for the young plants is far better than manure, but if the latter is to be used, see that it is well rotted.

Melon Seed are short crop again this year and prices are still high. Beware of seed offered at low prices.



NETTED GEM OR ROCKY FORD.

Rocky Ford

or

Netted Gem

The most popular and best seller among Musk Melons.

The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and highly flavored. The fruit is wonderfully uniform in shape and quality.

Grown largely in Colorado and shipped in carload lots all over the country. The favorite with market gardeners everywhere.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Maules Superior—Green Flesh

This excellent early muskmelon ripens about the same time as Jenny Lind, but is rather larger than that famous variety. The vine is a wonderfully strong and vigorous grower. The quality of the melon is unsurpassed, and it is a perfect shipper. The fruit is so attractive in appearance as to command a higher price in the market than other early sorts.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

Small Green Nutmeg

A variety resembling the Jenny Lind, and ripening nearly as early. The flesh is green, fine and very sweet. Superior for the early market, or family garden, and a favorite for hotels and restaurants.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

Osage or Miller's Cream

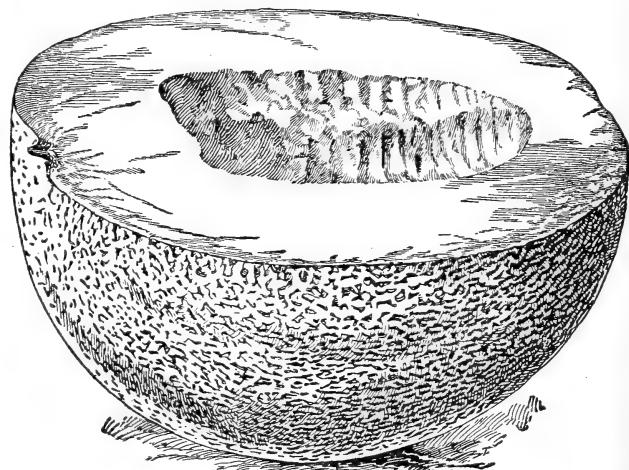
The finest flavored melon in cultivation, and the best melon grown for the market gardener, the trucker, the farmer or for the small planter. Without question the sweetest of all melons. The flesh is of a rich salmon color, very sweet and melting in quality.

Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 45c.; 1 lb., \$1.25.

Paul Rose, or Petoskey

Something new; created by a cross between the Netted Gem and Osage; fruit oval, about five inches in diameter, rich orange in color, sweet and highly flavored.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.



OSAGE, OR MILLER'S CREAM.

Well Known and Popular Varieties

	Pkt.	Oz.	$\frac{1}{4}$ lb.	lb.
Jenny Lind. Extra early, flesh green, fine flavor	5c.	15c.	40c.	\$1.25
Extra Early Hackensack. Flesh green, delicious, juicy and sweet, medium size.....	5c.	15c.	40c.	\$1.25
Early Baltimore, or Aeme. Early, oblong, pointed, flesh light green, sweet	5c.	15c.	40c.	\$1.25
Large Yellow Cantaloupe. Early and productive, flesh salmon color, rich, sweet	5c.	20c.	50c.	\$1.40
Emerald Gem. Medium size, early, flesh yellow, rich, sweet	5c.	20c.	50c.	\$1.50
Large Green Nutmeg. Good size, thick, green flesh of fine flavor and quality	5c.	20c.	60c.	\$1.75
Cosmopolitan. New, medium size, flesh green, very rich	5c.	15c.	40c.	\$1.25
Montreal Nutmeg. Medium early, flesh thick, firm and excellent	5c.	20c.	60c.	\$1.75
Casaba. Large, flesh green, sweet and delicious	5c.	20c.	50c.	\$1.50

Watermelons

CULTURE.—The watermelon, in its origins and habits, is similar to the muskmelon, and should receive the same cultivation and treatment, except that the hills should be further apart.

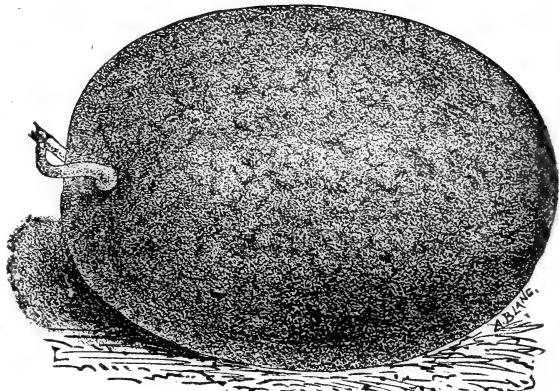
Fordhook Early

A FINE, EXTRA EARLY MELON.

Fruit of good size; skin dark green, flesh bright and crisp, sweet and good quality. Rind thin but tough. Good shipper. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

COLE'S EARLY.

The finest early, medium size, round and striped skin. It matures in every state; very hardy; flesh of deep red, sweet and delicate in flavor. Pkt., 5c.; 1 oz., 15c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.



FORDHOOK EARLY.

PHINNEY'S EARLY.

A valuable variety for use in the North; hardy and a sure cropper. Vines vigorous and productive, fruiting quite early. Fruit medium sized, oblong, smooth, marbled with two shades of green; rind thin; flesh pink, very sweet, tender and crisp.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., 80c.

CUBAN QUEEN.

A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped dark and light green. Melons are wonderfully solid, rind thin. They are enormously productive and ripen early.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

ICE CREAM, or PEERLESS.

A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained and cannot be surpassed in flavor. Very prolific, magnificent grower. It is one of the best for market and home purposes.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Sweet Heart

A HANDSOME AND PROFITABLE MELON.

This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled light and very light green. Rind thin but firm. Flesh bright red, nrm. solid, but very tender, melting and sweet. Fruit retains its good quality for a long time after ripening. Our stock is the very best.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 70c.

SWEET HEART.

FERRY'S ICEBERG.

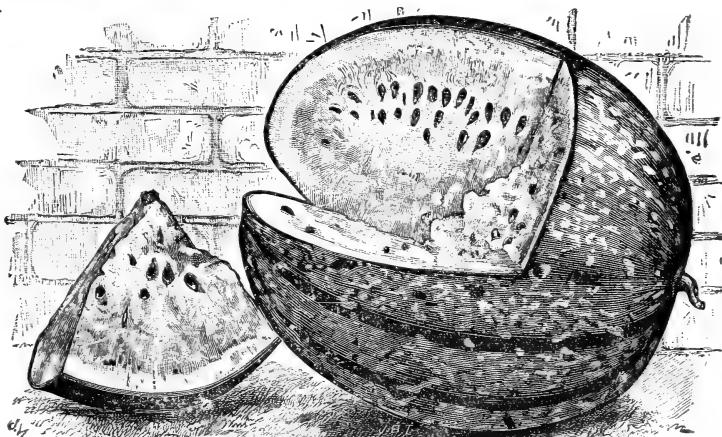
A handsome new melon; has a very hard, firm rind, making it a good shipper. Flesh rich, tender and sweet. Pronounced by some to be the best dark colored shipping melon yet produced.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

Kleckley's Sweet or Monte Cristo

A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size; oval; color dark, mottled green in two shades, forming indistinct stripes. Flesh a beautiful bright, rich red, exceedingly sweet and tender. A most delicious melon for home use.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., 90c.



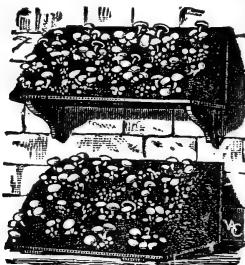
KLECKLEY'S SWEET (MONTE CRISTO).

Watermelons—Continued**Well Known and Standard Varieties**

	Pkt.	Oz.	1/4 lb.	lb.
Dark Icing. Early, round, solid, with thin, dark green skin; of superb quality .....	.5c.	10c.	25c.	75c.
Dixie. Flesh red and tender, skin dark, very attractive and productive .....	.5c.	10c.	25c.	70c.
Black Spanish. Round, dark green melons; flesh of fine quality .....	.5c.	10c.	20c.	70c.
Gray Monarch or Long White Icing. Very large; long; crimson flesh .....	.5c.	10c.	25c.	65c.
Florida Favorite. Large and long; rind firm; flesh deep red .....	.5c.	10c.	25c.	75c.
Kentucky Wonder. Oblong; flesh scarlet, crisp, tender, rich .....	.5c.	10c.	25c.	75c.
Hungarian Honey. Very early; fine for Northern latitudes .....	.5c.	10c.	25c.	80c.
Kolb's Gem. Almost round; flesh sweet; rind dark; good shipper .....	.5c.	10c.	20c.	60c.
Mountain Sweet. An old reliable sort; flesh red; of extra fine quality .....	.5c.	10c.	20c.	65c.
Gypsy, or Georgia Rattlesnake. Oblong, dark and striped; bright red flesh .....	.5c.	10c.	25c.	75c.
Citron (Red or Green Seeded). Round and handsome; for preserving only.....	.5c.	10c.	25c.	75c.

Mushroom Spawn

With intelligent care and good spawn, Mushrooms may be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a green house, or in sheds, where the temperature can be kept from 50 to 60 degrees through the winter.



MUSHROOMS.

FRENCH.

Mushrooms obtained from this spawn are very highly esteemed. In 3-lb. boxes, per box, \$1.50.

ENGLISH.

In bricks.
By mail, postpaid, 30c. lb.
By express, 20c. lb.

Mushroom Culture

If you want to be successful growing mushrooms send for the book on Mushroom Culture by Robinson, sent postpaid for 60c.

We also have a small booklet on Mushrooms for 15c postpaid.

Nasturtium**TALL MIXED.**

Useful and ornamental; flowers of various colors. The green seed-pods are pickled in vinegar. The flowers are used for garnishing.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 30c.

For other varieties see Flower List.

Onion Sets**BOTTOM ONION SETS.**

Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown direct from the seed. Yellow sets are most in demand, but Red and White are used to some extent. Sow forty to sixty pounds of black seed to the acre to raise sets.

Per pound, 25c.

These prices are by mail, post-paid. Deduct 10c. per lb. if ordering by freight.

Mustard

Used alone as "greens," or with cress as salad. Sow any time in the spring, in rows, and thin out as necessary.



GIANT CURLED MUSTARD.

SOUTHERN GIANT CURLED.

We offer a fine strain of the true crackle-leaf variety of the South for planting in the fall, to furnish an early spring salad.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 25c.; 1 lb., 70c.

WHITE ENGLISH.

Leaves mild, tender when young, and generally preferred for salad.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 35c.

Okra or Gumbo**IMPROVED DWARF GREEN.**

Very early, with long green slender pods.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 20c.; 1 lb., 60c.

WHITE VELVET.

The pods are smooth or very slightly ribbed, large, remain tender a long time.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 20c.; 1 lb., 65c.

TOP SETS.

Produced in clusters.

Lb., 25c.

MULTIPLIERS.

Grown for the tops.

Lb., 30c.

SHALLOTS.

Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-size bulbs. Light brown skin; mild, white flesh. It is the earliest, most vigorous in growth, and the easiest of all onions to cultivate from sets.

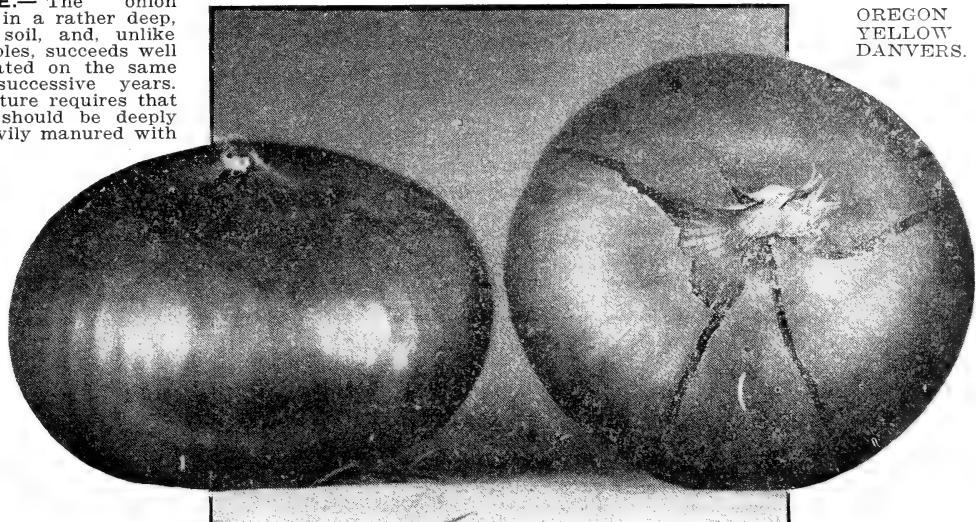
Lb., 30c.

25c worth of SEEDS FREE with every \$1.00 sent for Seeds in pkts. and oz. See inside front cover.

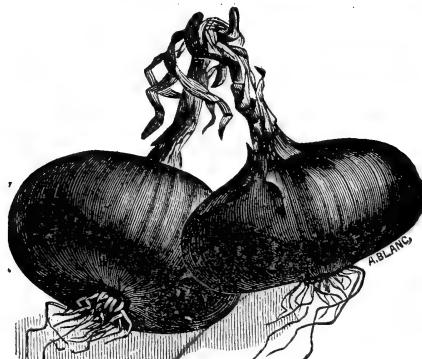
PUREST SEEDS ONIONS HIGHEST TEST

CULTURE.—The onion thrives best in a rather deep, rich, loamy soil, and, unlike most vegetables, succeeds well when cultivated on the same ground for successive years. The best culture requires that the ground should be deeply dug and heavily manured with well rotted manure a season or two previous. Sow as soon as the ground can be prepared in the spring.

The best that grow. We pride ourselves in selling the very best Onion Seed that can be produced. Try it.



OREGON
YELLOW
DANVERS.

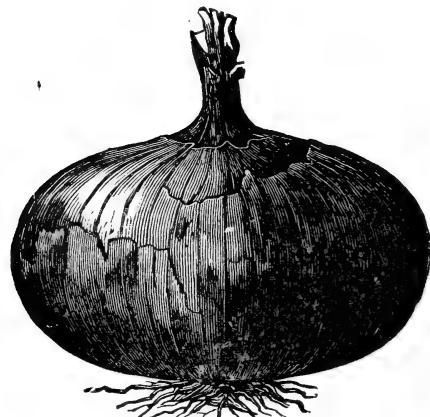


EXTRA EARLY RED FLAT.

Australian Brown

Since its introduction, a few years ago, it has become one of the most popular and most sought after onions in many markets. Its remarkable keeping qualities and handsome appearance has brought it rapidly to the front. This onion resembles the Oregon Yellow Danvers in general appearance, but has a clear, amber-brown skin that attracts buyers. It matures early, ripens uniformly, and will keep in good condition longer than any other onion. We offer the true, genuine seed, Oregon grown.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.25.



WETHERSFIELD.

Market Gardeners and those who buy Onion Seed in large quantities should write us for special prices.

✓ Oregon Yellow Danvers

This is the variety planted almost entirely in the Northwest, particularly in Oregon.

The largest crops of onions and the best keepers, bringing the highest prices in the Oregon and California markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, of a half globe in shape, with small necks.

It is the earliest, largest in size, most perfect in shape, the largest cropper and the best keeper, and as a market or table onion cannot be excelled.

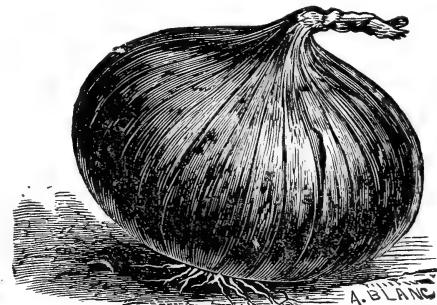
Our seed is grown specially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seed can be obtained.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.40.

✓ YELLOW DANVERS.

The old standard variety.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.25.



AUSTRALIAN BROWN.

✓ Extra Early Red—Flat THE FIRST RED ONION TO RIPEN.

A medium sized flat variety; an abundant producer and very uniform in shape and size; moderately strong flavored, and comes into use nearly two weeks earlier than the Large Red Wethersfield. Very desirable for early market use.

Pkt., 5c.; oz., 15c.; 1/4 lb., 50c.; 1 lb., \$1.40.

✓ EARLY LARGE RED GLOBE.

A large, early, rapid growing kind. Skin deep purplish red; flesh white, mild, and unusually sweet. Best for early use, as it does not keep long.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.40.

✓ YELLOW DUTCH, or STRASBURG.

One of the old varieties. Flat; flesh white, fine grained, mild and well flavored.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; 1 lb., \$1.25.

✓ Large Red Wethersfield

A standard variety, one of the most productive kinds, even on poor soil. Its good keeping qualities renders it one of the best for shipping.

Pkt., 5c.; oz., 25c.; 1/4 lb., 50c.; 1 lb., \$1.75.

Onions—Continued

ALL SEED CAREFULLY TESTED BEFORE LEAVING OUR STORE.

Yellow Globe Danvers

A very handsome, round or globe shaped variety, of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm, and the best of keepers. It ripens early and sells readily at the highest prices.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.35.

Prizetaker—The Genuine**THE HANDSOMEST AND LARGEST YELLOW GLOBE ONION.**

A new variety introduced but a few years ago which has proved to be an excellent keeper, of fine flavor, handsome shape and enormous size. A perfect globe shape, with a bright straw colored skin; the necks are very small and the onions always ripen up hard.

Pkt., 5c.; oz., 20c.; 1/4 lb., 50c.; lb., \$1.50.

WHITE GLOBE.

A handsome white, globe shaped variety; flesh fine, very white, rich and sweet. It is also one of the best keepers of the silver skinned kinds.

Pkt., 5c.; 1 oz., 25c.; 1/4 lb., 70c.; 1 lb., \$2.10.

Giant Rocca.

A very large growing globe-shaped variety. The skin is reddish-brown in color; flesh very mild and sweet-flavored.

Pkt., 5c.; 1 oz., 20c.; 1/4 lb., 60c.; 1 lb., \$1.75.

MAMMOTH SILVER KING.

This is a mammoth in size and largest in cultivation. The bulbs are very attractive in form, fine shaped, flattened but thick. It has a silvery-white skin, snow-white flesh, fine-grained, exceedingly mild and pleasant flavor. It matures quite early. Pkt., 5c.; 1 oz., 20c.; 1/4 lb., 60c.; 1 lb., \$2.00.

QUEEN.

White, handsome, and a good keeper. If sown thick, produces small, very firm bulbs. The best of all for pickling; if given more room matures an excellent onion that will keep all winter.

Pkt., 5c.; 1 oz., 25c.; 2 oz., 40c.; 1/4 lb., 75c.; 1 lb., \$2.25.

WHITE PORTUGAL, or SILVER SKIN.

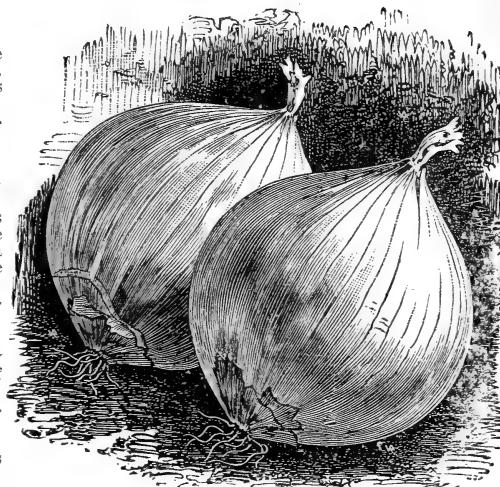
A good variety for family use; skin and flesh pure white; mild flavor and flat shape. The best white onion; also grown largely for sets.

Pkt., 5c.; 1 oz., 25c.; 1/4 lb., 75c.; 1 lb., \$2.25.

EXTRA EARLY BARLETTA.

A small onion of a pure paper-white color; very mild and delicate in flavor. Valuable for table use and for pickling.

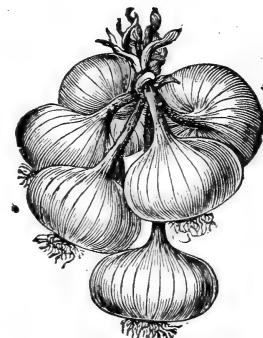
Pkt., 5c.; 1 oz., 20c.; 1/4 lb., 60c.; 1 lb., \$2.25.



PRIZETAKER.

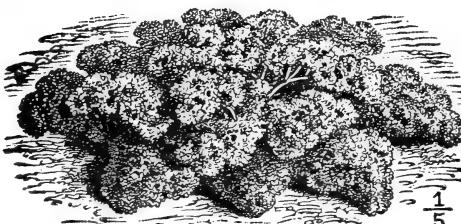
OUR SEEDS.

Not only grow, but produce fruits of superior quality.



SMALL QUEEN.

A good Seeder is one of the most important farm and garden tools. It "pays at both ends;" saves labor and seed in planting, it saves work and trouble in hoeing. It also makes a more even and therefore larger crop. Planet Jr.'s are the best. See pages 70, 71 and 72.



TRIPLE CURLED PARSLEY.

1
5**Parsley**

Very useful for flavoring soups, meats, and for garnishing. The green leaves are used for flavoring, or they may be dried crisp, rubbed to a powder, and kept in bottles until needed.

FINE TRIPLE-CURLED, or MYATT'S GARNISHING.

A fine, free growing, but not large variety. The plants bear a great number of leaves, which are so abundant and so finely curled that they resemble a bunch of moss.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

CHAMPION MOSS CURLED.

A compact growing, finely cut and much curled variety of a bright green color.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

TURNIP-ROOTED, or HAMBURG.

The root, which resembles a small turnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.

For Free Premiums See Inside Front Cover.

Parsnip

The Parsnip is nutritious and wholesome, with a sugary sweetness peculiar to itself, and is superior both for the table and for stock feeding. It yields a large crop, and is said to be more valuable for dairy cows than either the carrot or turnip. As the seed germinates very slowly, sow as early in spring as possible in drills fifteen inches apart, on deeply cultivated, rich, loamy soil. Keep clear of weeds, and thin to three or four inches apart. The roots are improved by freezing.

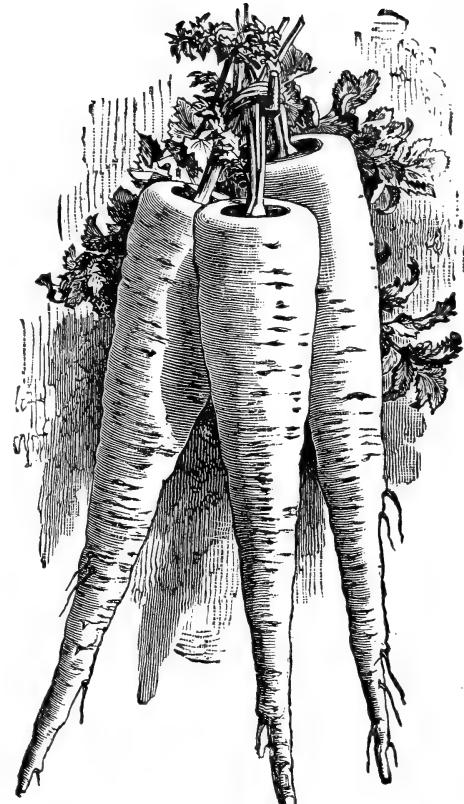
LONG WHITE DUTCH, or SUGAR.

Root very long, white, smooth, tender, sugary, and of most excellent flavor. Very hardy, and will keep through winter without protection. Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.

HOLLOW CROWN, or GUERNSEY.

Root white, very tender, with a smooth, clear skin. The variety is easily distinguished by the leaves growing from a depression on the top or crown of the root.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.



HOLLOW CROWN.

Pepper

Sow the seeds early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high transplant to a warm, mellow soil, in rows, eighteen inches apart and a foot apart in the row. Guano and hen manure are excellent fertilizers, and will greatly increase the yield.

RUBY KING.

An improved American sort, reaching the largest size, yet retaining the symmetrical shape of the smaller kinds. It is very bright colored, beautiful, sweet and mild flavored.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

LARGE BELL, or BULL NOSE.

A large, mild, thick fleshed variety. One of the best for stuffed pickles.

Pkt., 5c.; oz., 25c.; 1/4 lb., 65c.



GOLDEN DAWN.



RUBY KING.



CAYENNE.

GOLDEN DAWN.

Bright golden yellow. Very productive. Entirely free from fiery flavor.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

SWEET SPANISH, or MOUNTAIN.

Similar to the Large Bell, but usually larger. Excellent for pickling and stuffing.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

For Pepper Plants, see page 68.

Brilliant coral red pods, three or four inches long, and a prolific bearer. Very pungent and used very largely with pickles when green.

Pkt., 5c.; oz., 20c.; 1/4 lb., 70c.

CHILI.

Produces small pointed pods that are a brilliant scarlet, and very pungent when ripe. Used largely in the manufacture of pepper sauce.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

Potatoes

You will find seed potatoes described and priced on page 55-56. This year we offer a new early white potato of great merit. Be sure you look over our list before you send in your order.

You know you can buy POTATO EYES BY MAIL, and get a start for very little money. See page 55.

25 cents

Worth of Seeds EXTRA

Will be allowed on each ONE DOLLAR sent for Seeds in PACKETS and OUNCES

Thus, any one sending \$1.00 to us, can select seeds in PACKETS and OUNCES to the value of \$1.25; for \$2.00, seeds in PACKETS and OUNCES to the value of \$2.50; for \$3.00, seeds in PACKETS and OUNCES to the value of \$3.75—See second page of cover.

Select Stock

Garden Peas

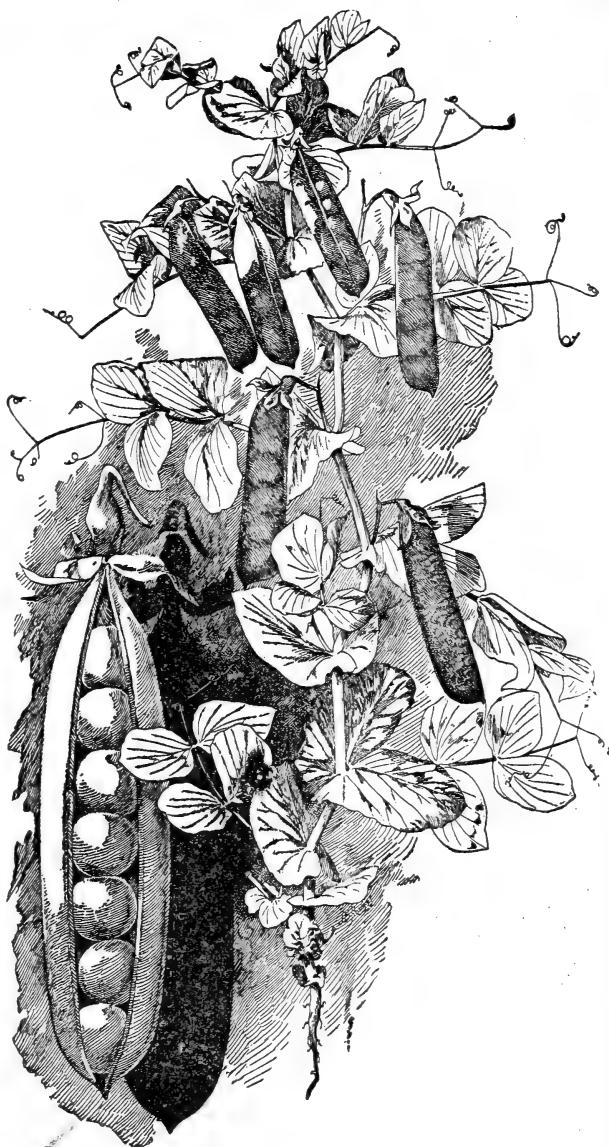
Select Stock

We pay postage on Peas only in 10c. packets. If ordering by mail in larger quantities, add 10c. per pound for postage.

✓ Alaska or Earliest of All

Earliest and best of all the blue, smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of the pods is unequalled by any other extra early pea. Vines 2 to $2\frac{1}{2}$ feet high, unbranched, bearing 4 to 7 long pods, which are filled with medium sized, bright green peas of excellent flavor. A great favorite with our market gardeners for fall and early spring planting.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.



EARLIEST OF ALL, or ALASKA.

✓ McLean's Little Gem

A sweet, wrinkled pea, coming in a little later than the American Wonder; grows taller and continues in bearing longer. The quality of the pea is very superior. Height, 15 inches.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.50.

✓ McLean's Advancer

Favorite with Cannery Men.

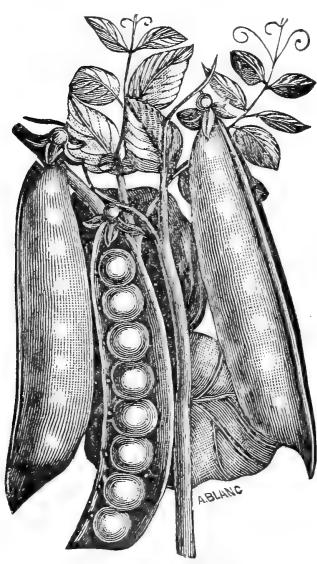
A green, wrinkled sort, bearing fine, broad pods. Comes in next after the Gem. Popular market kind, and used extensively by canners. Height, two and a half feet.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.15.

✓ American Wonder

The earliest and best of the wrinkled sorts. A great favorite for family use. Has stout, branching vines, about nine inches high, and covered with well filled pods containing seven or eight large, exceedingly sweet, tender and well flavored peas. Dry peas, medium size, much wrinkled and flattened, pale green.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60.



LITTLE GEM.

Peas—Continued

If ordering by mail add 10c.
per pound for postage.

Nott's Excelsior

The best early dwarf pea. It combines to a wonderful degree the good qualities of the American Wonder and Premium Gem Peas. The vines are larger and more productive than American Wonder and earlier than Premium Gem. The peas in sweetness and quality are unsurpassed. The most desirable sort for the market gardener and unexcelled for the home garden. Very hardy. It out-yields them 20 to 30 per cent. The pods are one-third longer, and each pod contains from 6 to 9 large peas, which are usually fine flavored and tender.

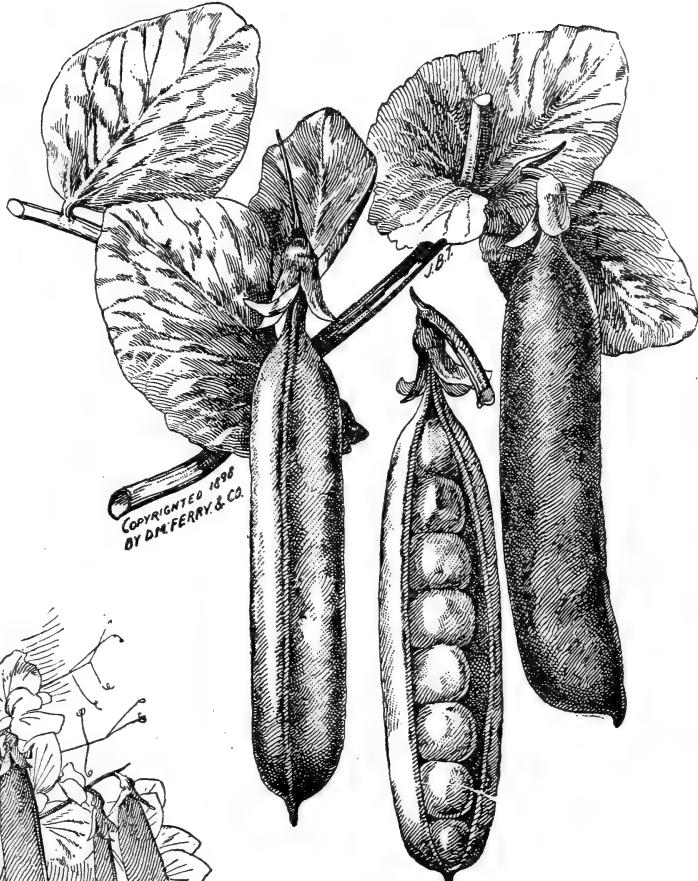
Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60.

CHAMPION OF ENGLAND.

Very rich and fine flavored; very productive; wrinkled; height, 4 to 5 feet. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.



NOTT'S EXCELSIOR.



AMERICAN WONDER.

Gradus

This extra early wrinkled Pea bears pods of large size, and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; grows vigorous and healthy; vines 2½ feet in height; very prolific. The quality and flavor are delicious, and the peas remain tender and sweet for a long time.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60.

Improved Strategem

One of the best of the large podded peas; the pods are of immense size, filled with large, dark green wrinkled peas of the finest quality; vine medium height, but very stocky, with very broad, light green leaves, and bearing an abundance of large, handsome pods.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

Yorkshire Hero

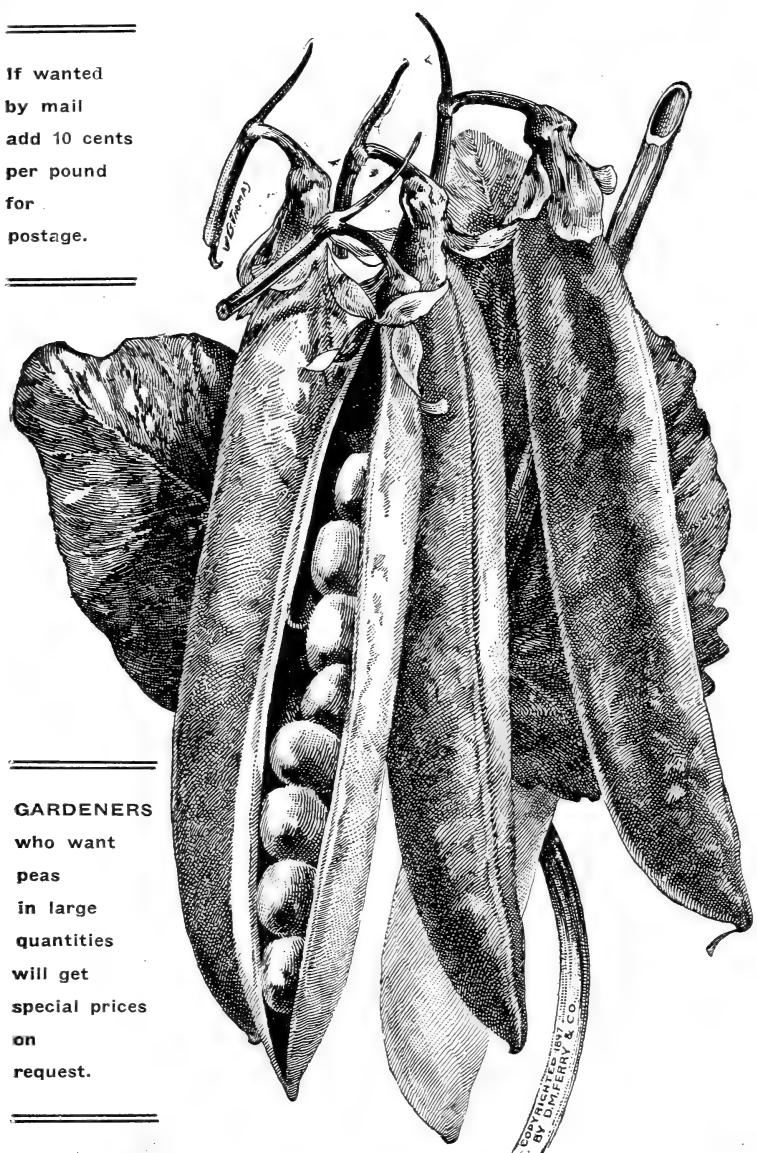
One of the largest sweet wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late; bears a long time; height two and a half feet.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

Gardeners who buy peas in quantity will do well to write us for special prices.

Peas—Continued

If wanted
by mail
add 10 cents
per pound
for
postage.



TELEPHONE, TRUE STOCK.

✓ BLACK-EYED MARROWFAT.

A good marrowfat pea; yields heavy; height, three feet.
Pkt., 10c.; 1 lb., 15c.

✓ BLISS' EVERBEARING.

Height about two feet; pods long, peas very large; unsurpassed in sweetness and flavor.
Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

✓ Telephone

Produces those handsome, long pods. A great favorite with our market gardeners.

Immensely productive, of the finest quality and excellent, sugary flavor; vines very strong; the pods are of large size, filled with large, delicious peas; height, 4 feet.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

✓ Veitche's Perfection

This superb wrinkled pea is one of the great leaders. There is probably no better late variety now under general cultivation. It attains a height of about 2½ feet, and is esteemed for good quality and productiveness. The pods are long, handsome and wonderfully well filled, and are produced in great abundance. The peas are of unusually large size and delicious flavor; eight to ten to the pod. Cannot be overpraised as a standard medium or late sort for the table, for canning or for market purposes.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

For Field Peas, see page

A Seed Drill

is something
no gardener
should be
without.
We have them.
See pages 70-71.

Melting Sugar

The kind that have sweet little pods, and are used the same way as snap or string beans.

This is the most popular of the edible podded kinds. The pods are large, straight, very tender and finely flavored. Vines medium height.

Pkt., 10c.; lb., 25c.

GIANT SUGAR (Gray Seeded).

Taller and larger than the above kind.

Pkt., 10c.; lb., 25c.

Potatoes

Get a new start this year by buying some of our select seed. We are offering only such varieties as have special merit. See Page 55.

Pumpkins

CULTURE.—Care should be taken to keep the different varieties apart, and also to keep them well separated from other vining plants, as they readily amalgamate and deteriorate.



GIANT OF ALL.

This cut is a correct reproduction from photograph of one of our "Giant of All" Pumpkins. You will note that the pumpkin is over twice the size of a tub.

WINTER LUXURY.

A superior pie pumpkin, small, but enormously productive and an excellent keeper; shape rounding oblong, about 10 inches in diameter; color golden-russet, finely netted; flesh deep golden, sweet and tender.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

LARGE YELLOW, or CONNECTICUT FIELD.

A large round variety, sometimes depressed at the ends; rind of a deep, glossy yellow. Vines vigorous and very productive. If protected, will keep well till midwinter. Grown extensively for stock feeding.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 20c.; lb., 40c.

Rape—Dwarf Essex. See Field Seeds, Page 53.

Rhubarb, or Pie Plant

CULTURE.—Rhubarb succeeds best in deep, rich somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep, and thin out the plants to six inches apart. In the fall transplant the young plants into very highly manured and deeply stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure each spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed.

LINNAEUS.

Pkt., 5c.; oz., 15c.; 1/4 lb., 45c.; 1 lb., \$1.50.

VICTORIA, or MAMMOTH.

Very large; finest cooking variety.

Pkt., 5c.; oz., 15c.; 1/4 lb., 45c.; 1 lb., \$1.50.

Rhubarb Roots

From October to June we can always supply one or two year old Rhubarb

Roots. Customers wanting only a few dozen roots for home gardens will save much valuable time by ordering roots instead of seed. For prices see page 68.

Giant of All

A new imported variety and a giant among the Mammoths.

This colossal Pumpkin is almost a globe in shape. The skin is of a beautiful, rich, golden yellow; flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality for so mammoth a variety.

These Pumpkins attain an enormous size and will carry away the prizes at your County Fairs.

LARGE PKT., 15c.; 1 oz., 25c.; 1/4 lb., 60c.

NOTE.—To raise the largest Pumpkins, the vines should have ample room, and only the best fruit allowed to remain on the vine.

LARGE SWEET CHEESE.

A most popular variety. Fruit flattened; skin mottled light green and yellow, changing to rich cream color as it matures. Flesh yellow, thick, tender; very nutritious and of excellent quality; a most productive variety.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

SWEET, or SUGAR.

A handsome and productive small Pumpkin, 10 to 12 inches in diameter; round-flattened, skin orange, flesh deep yellow, fine grained and very sweet.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

TENNESSEE SWEET POTATO.

Pear-shaped; flesh thick, cream white, fine grained, and of excellent flavor. Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 25c.; 1 lb., 75c.

JONATHAN.

A large, bottle-shaped variety, with a crook neck; of most attractive appearance. It is very prolific and the flesh is fine, clear and sweet, making it valuable for pies and other table uses. Its hard shell makes it an excellent keeper.

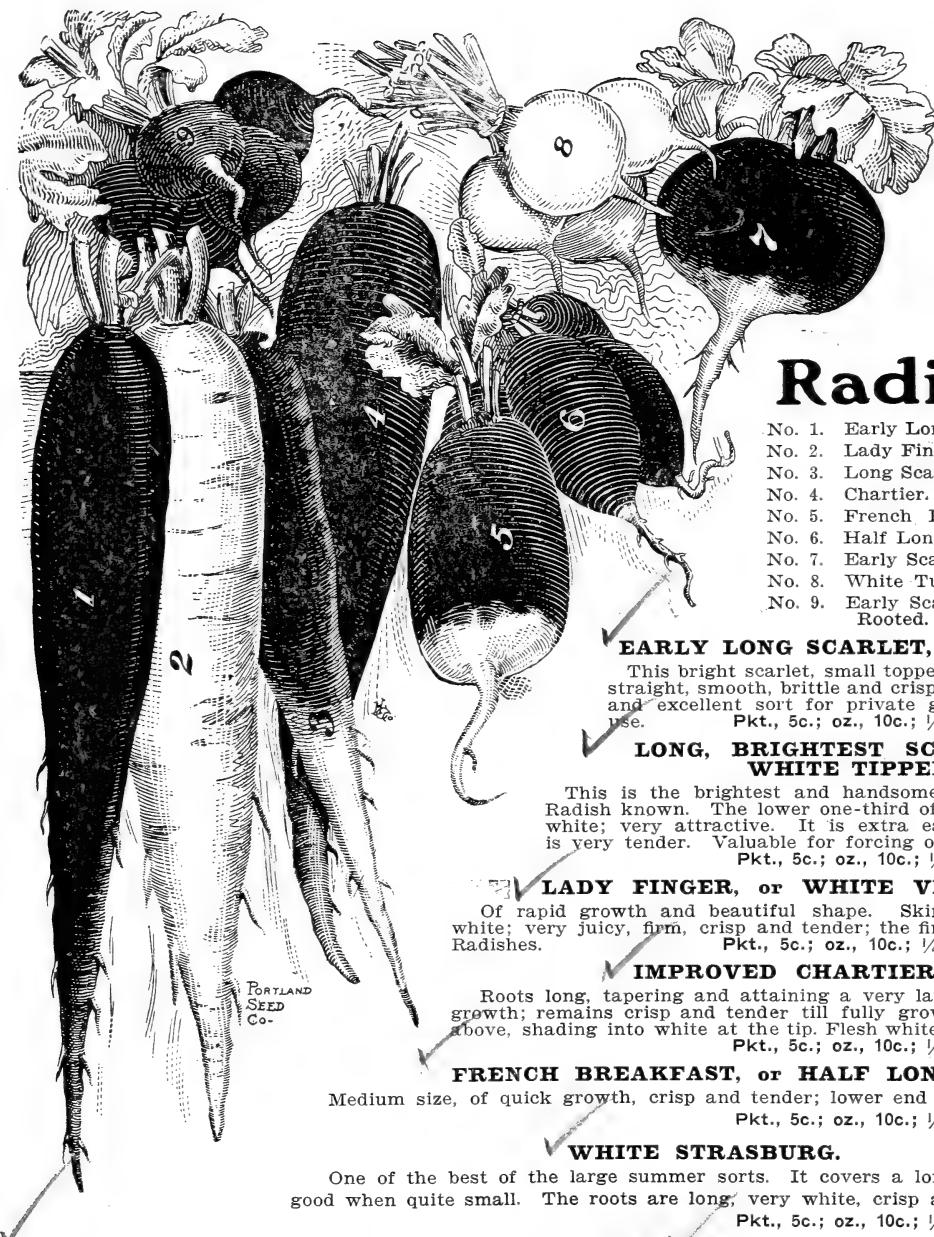
Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

MAMMOTH TOURS.

A productive French variety which grows to an enormous size. Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; 1 lb., \$1.00.



RHUBARB.



Radishes

- No. 1. Early Long Scarlet.
- No. 2. Lady Finger.
- No. 3. Long Scarlet. White Tip.
- No. 4. Chartier.
- No. 5. French Breakfast.
- No. 6. Half Long Scarlet.
- No. 7. Early Scarlet. Turnip W. T.
- No. 8. White Turnip Rooted.
- No. 9. Early Scarlet. Turnip Rooted.

EARLY LONG SCARLET, SHORT TOP.

This bright scarlet, small topped sort is uniformly straight, smooth, brittle and crisp, and is a standard and excellent sort for private gardens or market use.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

LONG, BRIGHTEST SCARLET, WHITE TIPPED.

This is the brightest and handsomest colored Scarlet Radish known. The lower one-third of the root is snow-white; very attractive. It is extra early and the flesh is very tender. Valuable for forcing or open ground.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

LADY FINGER, or WHITE VIENNA.

Of rapid growth and beautiful shape. Skin and flesh snow white; very juicy, firm, crisp and tender; the finest of Long White Radishes.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 70c.

IMPROVED CHARTIER.

Roots long, tapering and attaining a very large size. Of rapid growth; remains crisp and tender till fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

FRENCH BREAKFAST, or HALF LONG.

Medium size, of quick growth, crisp and tender; lower end and taproot white.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.

WHITE STRASBURG.

One of the best of the large summer sorts. It covers a long season, as it is good when quite small. The roots are long, very white, crisp and tender.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 70c.

EARLY WHITE TURNIP.

Similar to Scarlet Turnip, except in color.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.

CALIFORNIA MAMMOTH WHITE CHINA.

This is the largest of all Radishes. Roots grow 10 to 12 inches long, and are solid, tender and crisp. Keeps well through the winter.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 70c.

CHINA ROSE WINTER.

One of the best fall and winter varieties; a favorite with market gardeners; bright rose color; flesh white, firm and of superior quality.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

LONG BLACK SPANISH.

A long, black-skinned variety; flesh white and slightly pungent. One of the latest and hardest.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

ROUND BLACK SPANISH.

Skin black; roots globe shaped; white fleshed and pungent flavor.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

EARLY SCARLET TURNIP ROOTED.

A small, round, red turnip-shaped Radish, with small top and of very quick growth; very early; rich color, and crisp, tender flesh.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 50c.

EARLY SCARLET TURNIP, WHITE TIPPED

A beautiful variety, deep scarlet with white tip, and is becoming very popular as a market sort. Very early. Has a small top and may be planted close. It is very attractive in appearance. Flesh crisp, tender and sweet. Cannot fail to give satisfaction as a forcing Radish.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

EARLY WHITE GIANT STUTTGART.

Root large, often four inches in diameter, top-shaped. Skin white; flesh white and crisp, and not becoming strong or pithy until very late.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

HALF-LONG, DEEP SCARLET.

A handsome variety, resembling somewhat the Olive-shaped, but of a deeper scarlet. Good for forcing.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

Spinach

This is an important gardeners' crop, of easy culture. For spring and summer use, sow either broadcast or in drills one foot apart and one inch deep, as early as the ground can be worked and every two weeks for a succession.

BLOOMSDALE.

A very early variety. Is hardy and may be planted for early spring use.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

IMPROVED THICK LEAVED.

A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Especially recommended for market gardeners.

Pkt., 5c.; oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

LONG STANDING.

An improved variety, slow in going to seed, and perhaps the best for general use.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

MONSTROUS VIROFLAY.

This variety produces the largest leaves of any, yielding an enormous crop. Excellent for the family or market garden.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

Gardeners get special prices.

VICTORIA.

This variety produces the largest leaves of any, yielding an enormous crop. Excellent for the family or market garden.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 40c.



SPINACH.

PRICKLY WINTER.

The hardest kind, and may be sown in the fall, only requiring protection during the most severe frosts. The seed is prickly, the leaves rather long and pointed, but thick and succulent.

Pkt., 5c.; oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

SAVOY LEAVED.

A very early variety, of upright growth and pointed leaves, which are crinkled, like Savoy Cabbage. Grows quickly. Plant in autumn for early spring use.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1 lb., 40c.



SALSIFY.

Salsify is a nutritious and wholesome vegetable, having the appearance of a small parsnip; in flavor closely resembling oysters, for which it is, in that respect, a good substitute. It is rapidly coming into more general use. Sow early in spring, in drills a foot apart, and when two or three inches high thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during winter, or may be stored in dry earth or sand.

Squash

Summer Varieties

CULTURE.—The plants are very tender and sensitive to cold, and planting must be delayed until settled warm weather. The general principles of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten. Three plants are sufficient to a hill. In gathering the winter sorts, care should be taken to not bruise or break the stem from the squash, as the slightest injury will increase the liability to decay.

MAMMOTH SUMMER CROOKNECK.

An early prolific kind, having a solid, curved neck; the skin is yellow, thin, hard, and very warty; flesh tender and of good quality. Twice as large as the ordinary Crookneck and several days earlier.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; 1 lb., 90c.

WHITE SUMMER CROOKNECK.

The fruit is similar in size and shape to the Summer Crookneck, but of a beautiful ivory white color and unsurpassed quality.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; 1 lb., 90c.

MAMMOTH SANDWICH ISLAND.

The leading variety; produces a large crop of straight, smooth roots.

Pkt., 5c.; oz., 15c.; 2 oz., 25c.; 1/4 lb., 40c.; 1 lb., \$1.25.

LARGE WHITE.

An early kind; tender and excellent.

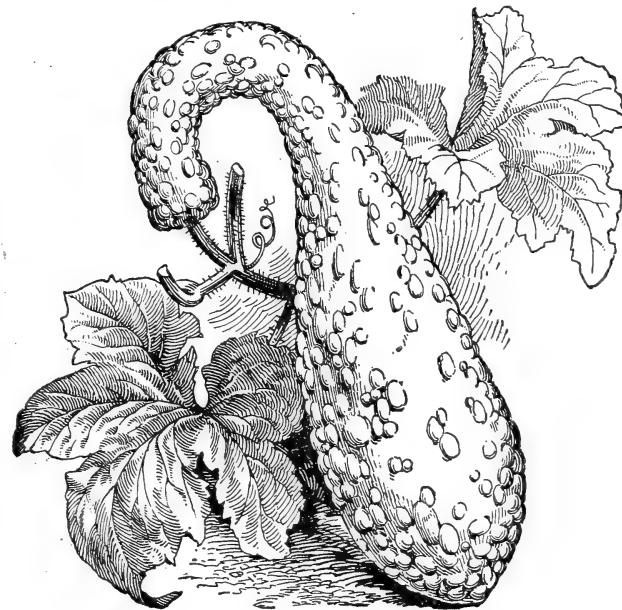
Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; 1 lb., \$1.10.

Sunflower

See Flower Seeds; also Field Seeds, page 53.

Sugar-Cane

See Field Seeds, page 53.



MAMMOTH SUMMER CROOKNECK.

Squash—Continued**EARLY YELLOW MAMMOTH BUSH SCALLOP.**

An early flat scallop shaped variety; color yellow; flesh pale yellow and well flavored; very productive.
Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 25c.; 1 lb., 85c.

FAXON.

It is remarkably prolific in habit, quality dry and rich, without regard to the size, coloring or time of ripening. Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 25c.; 1 lb., 75c.

MAMMOTH WHITE BUSH SCALLOP.

The best summer sort for the market; very productive and of good size.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

AMERICAN TURBAN, or ESSEX HYBRID.

Short, cylindrical shape, having on the blossom end a small, cap-shaped enlargement. The flesh is dry, sweet and thick, and of a bright orange color. Long keeper. Those desiring a "dry" squash should grow this one. Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.15.

ENGLISH VEGETABLE MARROW.

White flesh; outside yellow; grows about nine inches long; ribbed.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 30c.; 1 lb., 90c.

BOSTON MARROW.

Skin yellowish, very thin; flesh dry and fine grained, and of unsurpassed flavor.
Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 70c.

ORANGE MARROW.

An improved Boston Marrow. Quite distinct, very early, and of most delicious flavor. Suitable for fall and winter.
Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 25c.; 1 lb., 75c.

MARBLEHEAD.

Flesh deep orange colored, very dry and sweet, one of the best keepers.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 30c.; 1 lb., \$1.00

FORDHOOK.

One of the best winter Squashes; fine quality.

Pkt., 5c.; 1 oz., 15c.; 1/4 lb., 40c.; 1 lb., \$1.25

SIBLEY, or PIKE'S PEAK.

Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained and delicate flavor.

Pkt., 5c.; 1 oz., 10c.; 1/4 lb., 30c.; 1 lb., \$1.00

MAMMOTH CHILI.

The largest of all Squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine-flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding.

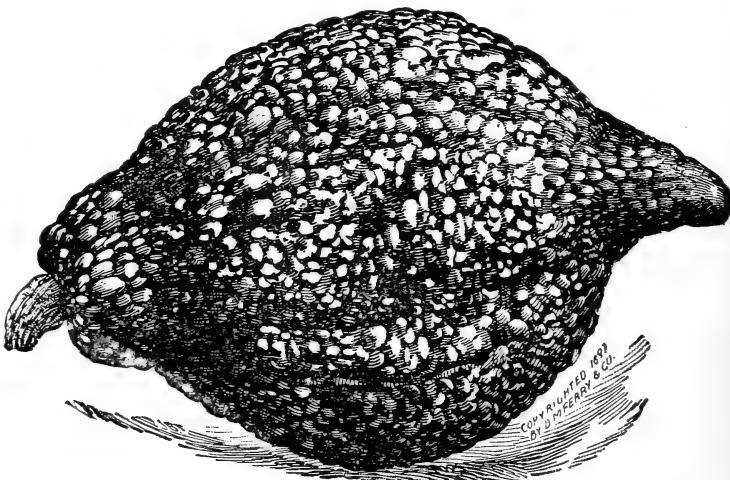
Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.10.



MAMMOTH CHILI.



BUSH SCALLOP SQUASH.



TRUE HUBBARD SQUASH.

True Hubbard

The best seller and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior for winter use, as it keeps perfectly through the winter.

Pkt., 5c.; oz., 15c.; 1/4 lb., 30c.; lb., \$1.00

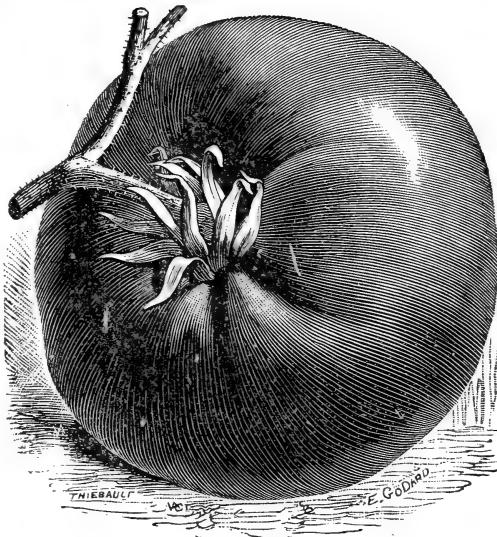
Golden Hubbard

The same in size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color, and somewhat earlier. It is also a long keeper. Considered by expert judges to be one of the very best fall and winter sorts yet introduced.

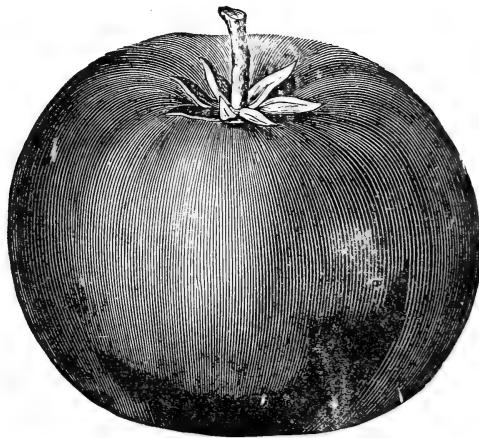
Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal.

Pkt., 5c.; oz., 15c.; 1/4 lb., 30c.; lb., \$1.00.

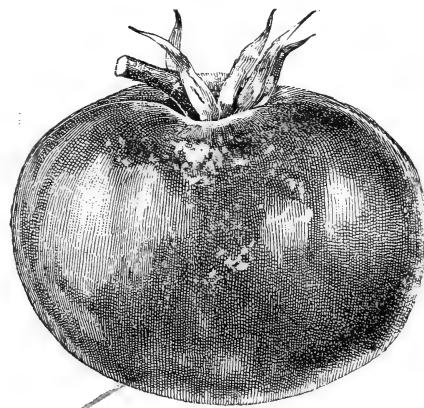
Tomatoes



SPARK'S EARLIANA.



LIVINGSTON'S PERFECTION.



NEW QUARTER CENTURY.

LIVINGSTON'S PERFECTION.

One of the best, medium early; round, uniformly smooth; vines very productive; fruit deep scarlet, firm, and of excellent quality. Vines continue long in bearing.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

NEW STONE.

Fine for main crop; very large; color bright scarlet; very smooth; ripening even to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best; not subject to rot. Superior for canning.

Pkt., 5c.; oz., 20c.; 1/4 lb., 75c.

WELL KNOWN STANDARD VARIETIES, POST-PAID, BY MAIL

	Pkt.	oz.	1/4 lb.
✓ Acme. The well known standard bright pink Tomato.....	5c.	20c.	.60
✓ Dwarf Champion. Dwarf, upright growth; smooth purple fruits.....	5c.	35c.	\$1.00
✓ Golden Queen. This is a first-class large, smooth, pure yellow Tomato.....	5c.	25c.	.75
✓ Husk Tomato, or Ground Cherry. Used mostly for preserves	5c.	30c.	1.00
✓ Livingston's Beauty. Large; a good quality; deep red in color.....	5c.	25c.	.75
✓ New Imperial. Early, large, red, smooth, fine form	5c.	25c.	.75
✓ Optimus. Second early, red, smooth and handsome.....	5c.	25c.	.75
✓ Ponderosa. Very large, solid, bright crimson.....	5c.	40c.	1.00
✓ Red Pear, Yellow Plum, or Red Cherry. Small Tomatoes resembling the different fruits named	5c.	30c.	.75
✓ Royal Red. Intensely bright red in color, but not very solid	5c.	20c.	.65
✓ Trophy. Very large, solid, and generally smooth; selected strain	5c.	20c.	.65

Tomato Plants

We have, in season, strong hardy plants.
See Vegetable List, page 68.

TOMATO CULTURE

This book is worth \$1.00 to any one who wishes to be successful growing tomatoes on this Coast. WE GIVE YOU ONE FREE. See premiums inside front cover.

Spark's Earliana**The Earliest Large, Smooth, Red Tomato.**

We advise all our gardeners to try this Tomato. This Tomato is not only remarkable for its earliness, but for its very large size, handsome shape and bright red color. Its solidity and fine quality are quite equal to the best medium and late sorts.

Pkt., 15c.; oz., 75c.; 1/4 lb., \$2.00.

FORDHOOK'S FIRST.

A very early large, smooth tomato of good form and yield.

Pkt., 5c.; 1 oz., 30c.; 1/4 lb., \$1.00.

Early Michigan

An extremely smooth and perfectly shaped Tomato; very early; vines strong and vigorous.

Pkt., 5c.; oz., 20c.; 1/4 lb., 70c.

Atlantic Prize

In point of earliness this undoubtedly takes the lead. In size, shape and color it compares favorably with later sorts. Color, bright red.

Pkt., 5c.; oz., 20c.; 1/4 lb., 70c.

Quarter Century

A grand new dwarf tomato. The fruit is large and heavy and superior in flavor; color, deep red. Fine for home or garden.

Pkt., 5c.; oz., 40c.; 1/4 lb., \$1.25.

NEW MAGNUS.

Fruit very smooth, dark red, heavy and solid. Ripens very early and does not crack. No hard core; quality unsurpassed; a strong, vigorous grower and heavy cropper.

Pkt., 5c.; oz., 35c.; 1/4 lb., \$1.00.

Turnips

EXTRA EARLY PURPLE TOP MILAN.

This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap-leaved, bulb a deep purple above, white underneath; flesh white, firm, and delicate.

Pkt., 5c.; oz., 15c.; 1/4 lb., 50c.; lb., \$1.40.

WHITE MILAN.

Same as above, but pure white.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; lb., \$1.00.

SCARLET KASHMYR.

The outer skin of this novelty is such a bright and beautiful red that they might be mistaken for radishes. The roots are flat, perfectly smooth, and have only a very small tap root. The flesh is white, tender and of good flavor.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

EARLY WHITE FLAT DUTCH (Strap Leaved).

One of the best and most universally grown. Small, erect top, round, flat; purplish red above, white underneath; flesh firm, but very tender and sweet. Of quick growth, it is soon ready for the table, and keeps well.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

EARLY PURPLE TOP (Strap Leaved).

A leading white fleshed variety, and one of the best, either for the family, market garden or field crop. It is medium size, and produces a large crop. The flesh is firm, but tender, and of a superior rich, buttery flavor. A good keeper.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 20c.; lb., 60c.

POMERANIAN WHITE GLOBE.

It is one of the most productive kinds, and in good rich soil roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and of strong growth.

Pkt., 5c.; oz., 10c.; 1/4 lb., 15c.; lb., 60c.

PURPLE TOP WHITE GLOBE.

A large globe-shaped variety; purple above ground. It is handsome and of excellent quality, and recommended both for the family garden and field crop.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

LARGE WHITE FLAT NORFOLK.

A round, flat, white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy, and may remain in the ground all winter. Yields a very large crop.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

COWHORN.

Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proven itself one of the best stock turnips ever introduced in Oregon, as it is an immense yielder.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

LARGE AMBER GLOBE.

One of the best for general crop; flesh firm and sweet; grows to a large size, excellent for table use or for feeding stock. Keeps well till late in the spring.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

ORANGE JELLY, or ROBERTSON'S GOLDEN BALL.

Undoubtedly among the most delicate and sweetest yellow fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

PURPLE TOP YELLOW ABERDEEN.

Round, medium size, light yellow; stained with purple on top. Produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet. A great favorite with the dairy men.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 20c.; lb., 60c.

White Egg

Is perfectly smooth of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta-baga, being a very choice kind for table use; of excellent flavor, sweet and mild. It pulls clean from the ground; thin, snow white skin.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

Ruta-Bagas, or Swedes

MONARCH, or TANKARD.

This is a yellow fleshed sort, having very large tankard-shaped roots; flesh very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

SKIRVING'S RUTA-BAGA.

Enormously productive; flesh yellow, solid and sweet. One of the best for field culture.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

WHITE SWEET RUSSIAN.

This variety is most excellent, either for table or stock. It grows to a very large size, flesh white, solid, of a firm texture, sweet and rich, an excellent keeper.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

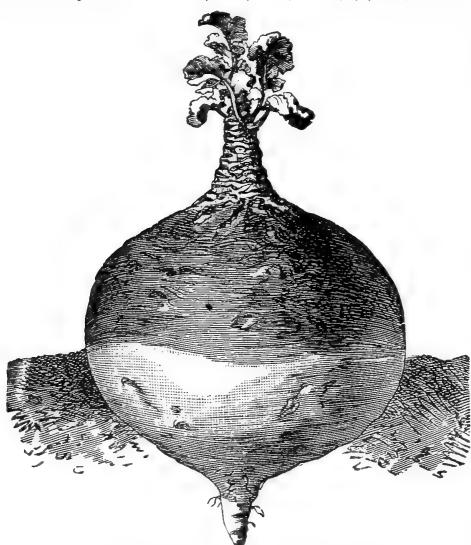
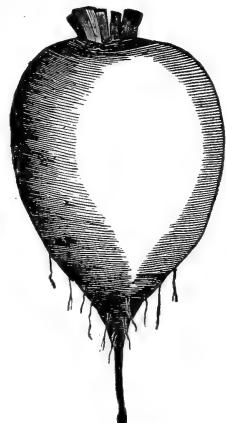
IMPROVED AMERICAN PURPLE TOP.

The leading standard variety, being very distinct in type, attaining a wonderfully large size, immense yielder. The flesh is very firm, superior in every way, valuable alike for all purposes.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.



PURPLE TOP MILAN.



PURPLE TOP RUTA-BAGA.

Tobacco

Sow the seed thinly in beds, as early as they can well be prepared, transplanting when six inches high to rows four feet apart each way. Cultivate thoroughly.

We can furnish Tobacco Plants in season.
See Vegetable List.

CONNECTICUT SEED LEAF.

Hardy, and the best adapted to cool localities, and for general use.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; lb., \$2.00.

HAVANA.

Of fine texture and delicate flavor.

Pkt., 5c.; oz., 35c.; 1/4 lb., \$1.00.

Tree Seeds

NURSERY MEN:—

We offer only Fresh, New Crop Seeds. Growers wanting large quantities should give us their orders early. Quantity price on request. NEW TREE SEED IS VERY SCARCE THIS SEASON.

Single Pound Prices are by Mail, Post-paid.

APPLE SEED.

(French Crab.) 1 oz., 10c.; 1/4 lb., 30c.; lb., 85c.

CHERRY PITS. MAZARD.

(Cerasus.) 1 oz., 10c.; 1/4 lb., 15c.; 1 lb., 40c.

CHERRY PITS. MAHALEB.

1 oz., 10c.; 1/4 lb., 20c.; 1 lb., 50c.

PEACH PITS.

For nursery stocks. 1 lb., 20c.; 100 lbs., \$2.50.

PEAR SEED.

(Pyrus Communis.) The best imported for nursery stocks. 1 oz., 15c.; 1/4 lb., 45c.; 1 lb., \$1.50.

PEAR SEED. NATIVE.

1 oz., 20c.; 1/4 lb., 50c.; 1 lb., \$2.50.

PLUM PITS.

(Prunis myrabolano.) For nursery stock.

1 oz., 10c.; 1/4 lb., 25c.; 1 lb., 65c.

QUINCE SEED.

1 oz., 20c.; 1/4 lb., 50c.; 1 lb., \$2.00.

BOX ELDER, or ASH LEAF MAPLE.

(Acer negundo.) 1 oz., 10c.; 2 oz., 15c.; 1/4 lb., 20c.; 1 lb., 60c.

HORSE CHESTNUT, or BUCKEYE.

1 lb., 35c.

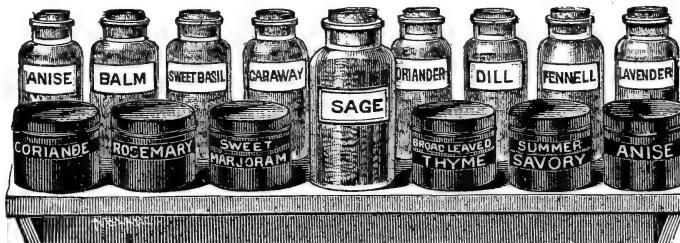
LOCUST, YELLOW OR BLACK.

A tree of rapid growth. Sown in our Western states for timber. 1 oz., 10c.; 1/4 lb., 20c.; 1 lb., 50c.

LOCUST, HONEY.

1 oz., 10c.; 1/4 lb., 20c.; 1 lb., 60c.

Herb Seeds—Pot, Sweet and Medicinal



Herbs in general delight in rich, mellow soil. Those marked with a (*) are perennial, and when once obtained in the garden may, with a little attention, be preserved for years. Sow the seeds early in the spring in shallow drills, one foot apart. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full blossom, tied in bunches and hung up or spread thinly on a floor where they can dry quickly. Prices include postage.

ANISE.

Seeds aromatic. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 85c.

BALM.

For culinary purposes. Pkt., 5c.; oz., 25c.; 1/4 lb., 65c.; lb., \$2.25.

BASIL—SWEET.

(Broad Leaved.) Pkt., 5c.; oz., 15c.; 1/4 lb., 45c.; lb., \$1.50.

BORAGE.

Leaves for flavoring. Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.25.

*CARAWAY.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

CATNIP.

(Cat Mint.) Pkt., 5c.; oz., 35c.; 1/4 lb., \$1.00; lb., \$3.75.

CORIANDER.

(Aromatic.) Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 70c.

DILL.

(Used medicinally.) Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 70c.

*FENNEL.

(Sweet.) Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

FENUGREEK.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

*HOREHOUND.

Bitter for tonic. Pkt., 5c.; oz., 20c.

HYSSOP.

Medicinal qualities. Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.50.

*LAVENDER.

For fragrance. Pkt., 5c.; oz., 20c.; 1/4 lb., 50c.; lb., \$1.75.

*MARJORAM—SWEET.

Pkt., 5c.; oz., 15c.; 1/4 lb., 50c.; lb., \$1.50.

*ROSEMARY.

Aromatic oil. Pkt., 5c.; oz., 30c.; 1/4 lb., 90c.; lb., \$3.25.

*RUE.

Has medicinal qualities. Pkt., 5c.; oz., 20c.; 1/4 lb., 50c.; lb., \$1.75.

SAGE.

Culinary herb; much used. Pkt., 5c.; oz., 20c.; 1/4 lb., 45c.; lb., \$1.60.

SAFFRON.

Pkt., 5c.; oz., 20c.

SORREL.

(Large Leaved.) Cultivated for acidity; used in salads. Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.

SUMMER SAVORY.

Culinary herb. Pkt., 5c.; oz., 10c.; 1/4 lb., 35c.; lb., \$1.10.

TANSY.

Generally used in bitters. Pkt., 5c.; oz., 30c.

THYME.

(Broad Leaved.) Pkt., 5c.; oz., 30c.; 1/4 lb., 75c.

WORMWOOD.

Medicinal use. Pkt., 5c.; oz., 20c.

Herb Seeds for Flavoring

ANISE.

Anise seed for flavoring. 1/4 lb., 15c.; lb., 40c.

CARAWAY FOR FLAVORING.

We keep constantly on hand a large stock of well preserved seed for the use of Druggists, Bakers and Confectioners.

1/4 lb., 15c.; lb., 35c.; 100 lbs., market price.

CORIANDER.

Coriander seed for flavoring. 1/2 lb., 20c.; lb., 35c.; 100 lbs., market price.

DILL.

Dill seed for flavoring. 1/2 lb., 20c.; lb., 35c. Used to flavor soups and stews, and in pickles. The leaves possess similar qualities, and can be used in the same manner as the seeds.

POPPY.

Seed used for flavoring. 1/2 lb., 25c.; lb., 35c.

Persons who use these Seeds in quantity should write for prices.

FLOWER SEED DEPARTMENT

CHOICE NEW AND STANDARD VARIETIES.

ANNUALS bloom and ripen the first year, and then perish.

BIENNIALS do not generally flower the first year, and are in perfection only one year.

PERENNIALS continue to flower several years in succession.

Hardy Annuals, Biennials and Perennials can be sown in the open ground early in the spring, if desired, and Biennials and Perennials will not require any protection in winter.

Half Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled warm weather, though they can be sown in the house, if desired, early, and afterwards transplanted. The two latter need to be protected in the winter, or carried over until spring in cold frames or green houses.

CULTURE.

Cultural directions are printed on the back of nearly all packets.

Flowers usually succeed best in a sandy loam, made rich with well rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

A hotbed or cold frame is very convenient to start seeds in, as the temperature and moisture can be so regulated as to make their germination and rapid growth more certain. Most seeds do well if sown in boxes in a sunny window in the house.

Plants are usually ready to be transplanted when they have made a growth of two inches.

Many annuals in warm climates, or when taken in, or protected during winter, become perennial, with but short lives however.



Ageratum.

We offer
only the
choicest
and best
Flower
Seeds.



Alyssum.

ACROCLINIUM. (Everlasting Flower.)

Elegant annual everlasting, producing beautiful daisy-like flowers; resembling the Rhodanthe. Fine for winter bouquets. Gather when partially opened, and dry in the shade. Height, 10 to 15 inches. Mixed. All colors Pkt., 5c.

AGERATUM.

Fine for bouquets and useful for beds, borders and pot plants. The flowers are graceful tufts of fine petals that remain fresh a long time after being cut. The plant blooms all summer. Half hardy annual; six to 18 inches high. (See cut.)

Fine Mixed. All colors Pkt., 5c.
Mexicanum. Light blue Pkt., 5c.

AGROSTEMMA.

Strikingly beautiful for beds, ribbons and borders. Its graceful pink-like flowers remain fresh a long time after being cut, and are very handsome in bouquets. Thrives in any good soil.

Coronaria. Rose Campion. Perennial Pkt., 5c.

ALYSSUM.

Every garden should have plenty of Sweet Alyssum; its small white flowers, borne in great profusion, are delicately fragrant and valuable for cutting; it is a good basket and pot plant, and valuable for carpet bedding. In the border sow thickly so as to make a mass. It is desirable to sow the seeds early in spring or even in the previous autumn. Hardy annual. (See cut.)

Maritimum. Sweet Pkt., 5c.
Maritimum. Little Gem Pkt., 5c.
Saxatile. Perennial. Yellow flowers Pkt., 5c.

AMARANTUS.

Our warm summers suit admirably the varieties of Amarantus cultivated for ornament. These are plants which are striking on account of their foliage or peculiar mode of bloom.

Cruentus. Handsome, erect flowers Pkt., 5c.
Melancholicus Ruber. Dwarf; deep red foliage Pkt., 5c.
Caudatus. Graceful, drooping flowers Pkt., 5c.
Tricolor. (Joseph's Coat.) Foliage scarlet, yellow and green. Pkt., 5c.



Aster.



Calliopsis.

To grow strong
healthy flowers use
our Plant Food.



Balsam.



Carnation.



Calceolaria.

AMMOBIUM. One of the hardiest everlastings. The flowers are not large, but beautiful in form, and pure white; very desirable for winter bouquets. An easily grown annual..... Pkt., 5c.

ANEMONE CORONARIA.

Beautiful spring flowers. Fine for cutting. Hardy perennial. Mixed Pkt., 5c.

ARABIS (Rock Cress).

The earliest, prettiest spring flower. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequalled for rookeries or edgings; withstands the drought and is always neat.

Alpina

Pkt., 5c.

ASTER.

Popular and well known. As a fall-blooming annual it has no superior; produces a profusion of flowers of a great variety of rich colors and shades, of varied and beautiful form. The late flowers are usually the best, and to sustain the plant it should have rich soil and abundant moisture. Half hardy annual.

Chrysanthemum, Flowered. Half Dwarf, White, Scarlet, Lilac, Rose or Mixed. Pkt., 10c.; 1/4 oz., 50c.

Giant Comet. Rose, Crimson, Light Blue, Snow White or Mixed. Pkt., 10c.; 1/4 oz., 50c.

German Quilled. Mixed. Pkt., 5c.; 1/4 oz., 35c.

Semple's Late Branching. Mixed, White, Rose, Crimson or Blue. Pkt., 10c.; oz., 35c.

Jewel. Mixed. Pkt., 10c.

Truffaut's Peony Perfection. White, Crimson, Light Blue, Rose or Mixed. Pkt., 10c.; 1/4 oz., 75c.

American Mixed. Late branching type; long petalled flowers, feathery in aspect. Pkt., 15c.

AURICULA. (Primula Auricula.)

Beautiful spring blooming flowers. Hardy perennial.

Fine Mixed Pkt., 25c.

BALSAM.

(Ladies' Slipper—Touch-Me-Not.)

Exceedingly attractive and handsome plants, producing masses of various colored flowers. Half hardy annual. (See cut.)

Tall Double Camelia Flowered.

Mixed Pkt., 5c.; 1/4 oz., 20c.

Dwarf Double. Mixed Pkt., 5c.; 1/4 oz., 20c.

BACHELOR'S BUTTON.

(Centaurea Cyanus.)

A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome.

Cyanus. Fine single mixed. Pkt., 5c.

Cyanus. Fine double mixed. Pkt., 5c.

Cyanus. Alba a single white. Pkt., 5c.

BRIZA MAXIMA.

Handsome ornamental grass. Fine for winter bouquets Pkt., 5c.

BROWALLIA.

Handsome free flowering annual. Covered all summer with bright, rich blue and white flowers. Worthy of more general cultivation. Eighteen inches high.

Mixed 5c.

BRACHYCOME.

Swan River Daisy. A charming flower in white and blue varieties. The plants grow about twelve inches in height and bloom freely. They make elegant border plants. The flowers are fine for cutting, and the neat slender foliage well adapted for bouquet making.

Choice Mixed Pkt., 5c.

CALENDULA.

The well-known Pot Marigold, valued by Europeans for flavoring soups and stews. Flowers are dried in fall and kept in paper bags for use. In mild climates this plant will bloom nearly all the year round. Seeds can be sown in early spring in open ground.

Mixed Pkt., 5c.

CALCEOLARIA.

Very handsome and much admired. Produces a profusion of beautiful flowers of unique form and colorings. Fine for pot culture. (See cut.)

Hybrida mixed Pkt., 25c.

CARNATION.

Universally admired, deliciously fragrant. Unsurpassed for richness and delicacy of form and color. (See cut.)

Extra Choice Double Mixed Pkt., 20c.

Fine Double. Mixed Pkt., 10c.

Margaret. Mixed Pkt., 10c.

CANARY BIRD FLOWER.

Climbing plant with graceful foliage and yellow blossoms. Half-hardy annual Pkt., 5c.

CANNA.

Ornamental, tropical looking plants, of easy culture, large and beautiful flowers. Hardy Perennial.

Crozy's Fine Mixed Pkt., 10c.

CALLIOPSIS, or COREOPSIS.

Very showy and attractive. Covered with a mass of bright flowers. (See cut.)

Choice Mixed Annual Pkt., 5c.

Choice Mixed Perennial Pkt., 10c.

CASTOR BEAN. (Ricinus.)

Highly ornamental, of stately growth and having large leaves of bronze or glossy green.

Sanguineus. Brilliant Scarlet Pkt., 5c.; oz., 15c.

Barboniensis Arboreus—

The largest variety Pkt., 5c.; oz., 20c.

Mixed. Best varieties Pkt., 5c.; oz., 10c.

Zanzibariensis. Surpasses all in size and beauty of colors Pkt., 10c.

CATCHFLY.

A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers. The plant is covered with glutinous moisture, to which flies adhere; hence its name.

Fine Mixed. All colors Pkt., 5c.



Canterbury Bells.



Candytuft.



Celosia.



Cineraria.

CANDYTUFT.

Candytufts have long been among the most highly prized of garden annuals. The best effect is produced by raising the plants in masses, and the seeds are sown where the plants are to bloom. (See cut.)

<i>Odorata.</i> Sweet scented. White	Pkt., 5c; oz., 25c.
<i>Carmine</i>	Pkt., 25c.
<i>Purple</i>	Pkt., 5c.
<i>Mixed.</i> All colors	Pkt., 5c; oz., 25c.
<i>Sempervirens.</i> Perennial. White	Pkt., 10c.

CANTERBURY BELLS.

Very ornamental garden plants of the easiest culture; hardy biennial, $2\frac{1}{2}$ feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades. (See cut.)

<i>Campanilla.</i> Single mixed. Blue, white or rose.	Pkt., 5c.
<i>Campanilla.</i> Double mixed. Blue, white, rose.	Pkt., 10c.

CELOSIA.

(Cock's Comb.)

<i>Graceful,</i> free blooming, half-hardy annuals,	
<i>Cristata.</i> Finest varieties. Mixed	Pkt., 5c.
<i>Glasgow Prize.</i> Crimson	Pkt., 10c.
<i>President Thiers.</i> Dwarf, crimson combs	Pkt., 10c.

FEATHERED CELOSIA (See Cut).

<i>Plumosa.</i> Mixed colors of great brilliancy	Pkt., 10c.
<i>Ostrich Feathered.</i> Mixed	Pkt., 10c.
<i>Thompson's Superb Feathered.</i> Mixed	Pkt., 10c.

CENTAUREA.

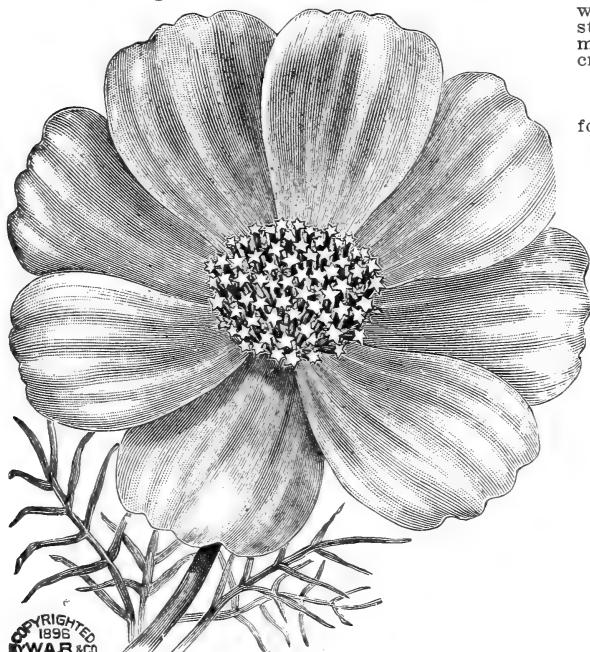
<i>Candidissima.</i> Has handsome silver foliage. Half-hardy perennial	Pkt., 10c.
<i>Odorata Champeleon.</i> Flowers yellow and rose; fragrant; superb	Pkt., 10c.

<i>Margaritae.</i> Pure white, large and handsome, sweet scented	Pkt., 10c.
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CHRYSANTHEMUM.

Very showy, effective and desirable as summer flowering plants. Hardy annuals.

<i>Coronar.</i> Double or single. Mixed	Pkt., 5c.
<i>Frutescens.</i> (Marguerite, or Paris Daisy)	Pkt., 10c.
<i>Tricolor.</i> Single or double. Mixed	Pkt., 5c.



Mammoth Cosmos.



Celosia.



Cineraria.

CINERARIA.

Magnificent and indispensable flowering plants for the window garden. The flowers are of white, blue, violet and crimson shades, covering the plant with a sheet of bloom.

<i>Hybrida.</i> Mixed. Extra choice	Pkt., 50c.
<i>CLARKIA.</i>	

Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Double Mixed

Pkt., 5c.

COSMOS.

A strong grower, having elegant foliage, and for fall blooming has no superior. Seed sown in March or April and transplanted to open ground will produce plants three to five feet high by September, which thereafter, and until November, will yield hundreds of blossoms three inches across; they are of various shades from pure white to purplish crimson. Both foliage and flowers are unsurpassed for bouquets and vases. Annual. (See cut.)

Early Blooming. Mixed	Pkt., 5c; $\frac{1}{2}$ oz., 25c.
Mammoth. Mixed	Pkt., 10c.; $\frac{1}{4}$ oz., 25c.

MAMMOTH. (Aquilegia).

Commonly known as the Honeysuckle. Produces handsome flowers of unique form and many bright and attractive colors. Hardy perennial.

Mixed. Best double or single varieties	Pkt., 5c.
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COLLINSIA.

This is a free-flowering hardy annual. The flowers are in whorls, handsomely variegated in crimson, purple and white, and interesting.

Mixed	Pkt., 5c.
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COBAEA SCANDENS.

A handsome, rapid growing, climbing plant, having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils.

Purple or White	Pkt., 10c.
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CYCLAMEN. (See cut.)

Beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. The colors range through shades of pink, crimson, white, spotted, etc. Delicately fragrant.

<i>Giganteum Hybridum.</i> Mixed	Pkt., 25c.
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CYPRESS VINE (*Ipomoea Quamoclit*).

A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers.

Mixed. All colors	Pkt., 5c.
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Scarlet	Pkt., 5c.
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DAHLIA.

A magnificent fall-blooming bulbous-rooted plant, which can be readily started from seed.

Tall Double Mixed	Pkt., 5c.
Dwarf Double Mixed	Pkt., 10c.

Dwarf Single Mixed	Pkt., 10c.
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Cactus. Mixed	Pkt., 10c.
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For Dahlia Bulbs see Index.

DATURA.

Large, strong-growing plants, trumpet-shaped flowers, white, sometimes tinted with blue. Roots can be preserved in the cellar, like Dahlias.

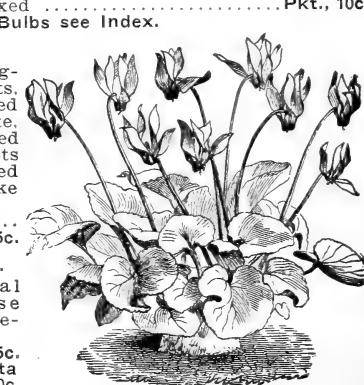
Double Mixed ..	Pkt., 5c.
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DRACAENA.

Ornamental green house plant. Very desirable.

<i>Draco</i> Pkt., 25c.	
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<i>Indivisa Lineata</i>	Pkt., 10c.
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Cyclamen.

DAISY.

(Bellis Perennis.)

A well known and popular low-growing plant, bearing beautiful flowers. Hardy perennial.

Longfellow. Double Red	Pkt., 15c.
Double White	Pkt., 15c.
Double Mixed	Pkt., 15c.

ESCHSCHOLTZIA.

(California Poppies.)

These are among our most beautiful and popular annuals, being of the easiest culture and giving great satisfaction. They commence to bloom within a few weeks' time from spring-sown seed and continue to flower profusely until late in the autumn, forming nice bushy plants, 1 foot high. (See cut.)

Californica. Yellow. Mixed	Pkt., 5c.; oz., 25c.
California Mixed	Pkt., 5c.; oz., 25c.
Carmine	Pkt., 5c.; oz., 25c.
Double Mixed	Pkt., 10c.; oz., 50c.

ECHINOCYSTIS LOBATA.

(Wild Cucumber.)

A rapid growing climber. Very good for covering old fences or trellises. Hardy annual. Pkt., 10c.

EUPHORBIA VARIEGATA.

Fine variegated foliage. Hardy annual. Pkt., 5c.

ERAGROSTIS.

(Love Grass.)

Ornamental grass, having beautiful dancing spikelets. Fine for bouquets. Pkt., 5c.

FOX GLOVE.

(Digitalis.)

A tall growing biennial, with large leaves, and spikes of varicolored and spotted flowers. A magnificent plant. Fine for borders or background.

Fine Mixed	Pkt., 5c.
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FOUR O'CLOCK.

(Mirabilis—Marvel of Peru.)

Also called Beauty of Night. A well known, hardy annual, growing luxuriantly in any ordinary soil, and bearing a profusion of bright, handsome flowers of various colors, shades and markings. Flowers open at four o'clock, close in the morning.

Choice Mixed	Pkt., 5c.; oz., 15c.
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FORGET-ME-NOT.

(Myosotis.)

Beautiful spring favorites, of easy growth, bearing clusters of lovely small flowers. They are perennials and hardy enough to remain in the open ground excepting in very cold latitudes. Fine for borders.

Alpestris Blue	Pkt., 10c.
Alpestris Mixed	Pkt., 10c.
Palustris. The true "forget-me-not"	Pkt., 10c.
Semperflorens. Everblooming. Blue	Pkt., 10c.

GAILLARDIA.

Exceedingly beautiful half-hardy perennial, making very showy plants, 1 to 2 feet high, for the flower garden. Grown in masses they are especially effective; large flowers, 2 or 3 inches across, produced from early summer until frost; unrivaled for cutting.

Grandiflora Maxima. Golden	Pkt., 10c.
Mixed. Yellow, orange, red	Pkt., 5c.
Picta. Yellow, hardy annual	Pkt., 10c.

GENTIANA.

Should be in every flower garden.	
Mixed	Pkt., 10c.

GEUM.

(Chiloense.)

Hardy perennial. Free-blooming plants. Fine for borders.	
Scarlet. Double	Pkt., 5c.

GILIA.

Gilias are free-flowering, hardy annuals, one foot high, with finely cut foliage and clusters of small, delicate flowers, white, lilac and rose color; desirable for cutting and suitable for beds, rockwork and edgings.

Mixed	Pkt., 5c.
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GLOBE AMARANTH.

(Gomphrena.)

An old favorite everlasting flower.	
Mixed	Pkt., 5c.

GLOXINIA.

Most charming greenhouse plants of dwarf habit. Their flowers are produced in greatest profusion, and of the most exquisite and gorgeous colors, many of which are magnificently spotted, mottled and blended. Under the commonest culture they bloom continuously for months.

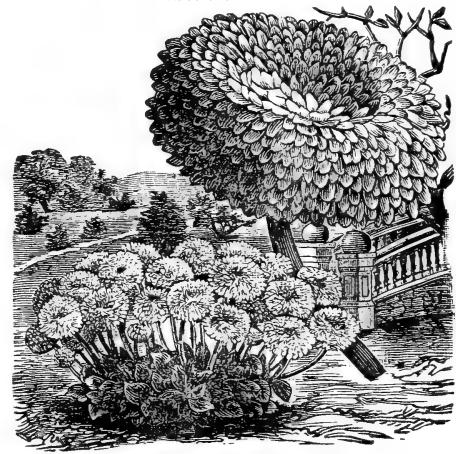
Hybrida Grandiflora. Mixed	Pkt., 50c.
Robusta. Hardy Mixed	Pkt., 50c.

GREVILLEA. ROBUSTA.

The Silk Oak. Very beautiful and graceful foliage plant. Pkt., 10c.



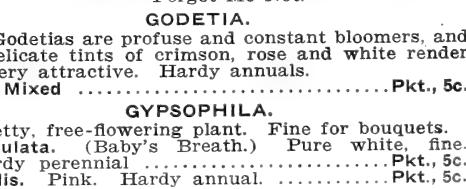
Eschscholtzia.



Daisy.



Forget-Me-Not.



GODETIA.

The Godetias are profuse and constant bloomers, and their delicate tints of crimson, rose and white render them very attractive. Hardy annuals.

Fine Mixed	Pkt., 5c.
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GYPSOPHILA.

A pretty, free-flowering plant. Fine for bouquets.

Paniculata. (Baby's Breath.) Pure white, fine.	
Hardy perennial	Pkt., 5c.
Muralis. Pink. Hardy annual	Pkt., 5c.



Heliotrope.



Imperial Japanese Morning Glory.



Hollyhock.



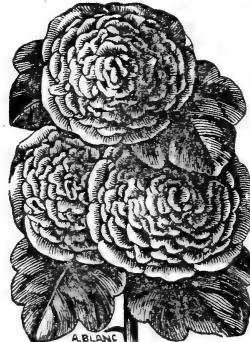
Lobelia.



Mimulus.



Marigold.



We can furnish all Popular Flowering Plants in Season.
(See Index.)

GOURDS.

Of rapid growth and bearing curious fruits of various sorts.

Dishcloth, Dipper, Bottle, Egg-Shaped or Mock Orange. Each.. Pkt., 5c.
Large Varieties. Mixed Pkt., 5c.; oz., 25c.

Small Varieties. Mixed Pkt., 5c.; oz., 25c.

HELIOTROPE.

Delightfully fragrant, free-blooming, tender, perennial plants. Splendid for bedding or pot culture. One foot high, of spreading habit. The fragrance of its flowers cannot be excelled in exquisite delicacy. Invaluable for bouquets.

Mixed. Choice Pkt., 10c.

HELICHRYSUM.

Everlasting flower. One of the best for winter bouquets. White, yellow and crimson. Hardy annual.

Double Mixed Pkt., 5c.

Strong-growing plants, of very easy culture and exceedingly showy. Has large cup-shaped flowers. Hardy annual.

Extra Mixed Pkt., 5c.

HOLLYHOCK (Althaea).

Grand summer and autumn flowering plants, bearing long spikes of double flowers, 3 to 4 inches across. Hardy perennials, 5 to 8 feet high. They should have a place in every garden. (See cut.)

Chater's. Choice, double mixed Pkt., 10c.

Double Crimson, Scarlet, White, Yellow, Magenta, Lilac or Pink Pkt., 10c.

Allegheny. Double choice mixed Pkt., 10c.

Allegheny. Double black Pkt., 10c.

HUNNEMANIA (Giant Yellow Tulip Poppy).

Fumariaefolia. Best of the poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup-yellow poppy-like blossoms, and never out of flower until hard frost.

Pkt., 10c.

HYACINTH BEAN.

(Dolichos.)

Rapid growing, ornamental, climbing annuals, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods.

Mixed Pkt., 5c.

ICE PLANT.

Pretty summer trailing annual for vases and rock work; leaves covered with ice-like drops.

Pkt., 5c.

IPOMOPSIS, MIXED.

("Garden Cypress.")

Symmetrical plants of pyramidal growth, feathery foliage and handsome spikes of flowers; useful for either garden or pot culture.

Pkt., 5c.

Mixed Pkt., 5c.

IPOMOEA.

One of the most beautiful climbing plants in cultivation for the greenhouse or sheltered situations outdoors. It belongs to the same family as the Morning Glory.

Mexican Grandiflora Hybrida. Flowers very large Pkt., 10c.

Hybrida. Blue. Flowers beautiful sky blue Pkt., 10c.

KAULFUSSIA.

Pretty, free-flowering plants of compact growth. Hardy annual.

Mixed Pkt., 5c.

LANTANA.

A free-flowering shrubby plant, suitable for outdoor or pot culture. The flowers emit an agreeable odor, and are of many shades of purple, orange and white. Half-hardy perennial.

Mixed Pkt., 10c.

LOBELIA.

Delicate, low-growing, annual plants of the greatest value for borders, ribbons, edgings, rock work and hanging baskets. (See cut.)

Pkt., 10c.

Erimis Gracilis. Blue, trailing Pkt., 10c.

Erimis Crystal Palace. Dark blue Pkt., 10c.

Erimis Crystal Palace Compacta. Very dwarf blue Pkt., 10c.

Erimis. Finest mixed Pkt., 5c.

Erimis White Lady. White flower Pkt., 10c.

Perennial Cardinalis. Flowers rich red Pkt., 10c.

LINUM.

Grandiflorum Rubrum. Crimson flax Pkt., 5c.

Perennial. Mixed Pkt., 10c.

LYCHNIS.

Haageana Hybrida. Easy culture. Very effective in shrubby borders.

Pkt., 10c.

LARKSPUR.

(Delphinium.)

A very ornamental class of profuse blooming plants. Their tall spikes of many colored flowers produce a striking effect when planted in groups.

Dwarf Rocket.	Finest colors	Pkt., 5c.
Tall Branching.	Finest mixed	Pkt., 5c.
Perennial Mixed	.....	Pkt., 5c.

LUPIN.

(Lupinus.)

Very desirable, shrubby plants, bearing long spikes of various colored flowers.

Annual Mixed	Pkt., 5c.
Perennial Mixed	Pkt., 5c.

MARIGOLD.

(Tagetes.)

The French and African Marigolds are valuable for their flowers in summer, and can be grown to advantage in little clumps with other plants in the front of shrubberies or in the garden border. The African varieties are the taller in growth, and produce large self-colored blossoms; the French varieties are smaller, some of them being elegantly striped and spotted.

African. Double mixed	Pkt., 5c.; oz., 25c.
African. Double dwarf. Mixed	Pkt., 5c.
French. Double mixed	Pkt., 5c.; oz., 25c.
French. Double dwarf mixed	Pkt., 5c.

MIMULUS.

Moschatus. (Musk Plant.) Cultivated for its rich, musky odor. Should have a rich soil and ample moisture. Hardy perennial	Pkt., 10c.
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Tigrinus Grandiflorus. (Monkey Flower.) Mixed, beautifully spotted, all colors	Pkt., 10c.
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MIMOSA.

Pudica. (Sensitive Plant.) Very curious and interesting plant. Its leaves closing if touched or shaken. Annual	Pkt., 5c.
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MIGNONETTE.

This deliciously fragrant flowering plant is the most popular annual grown. Mignonette does best in a cool situation. Flowers produced in spikes. Hardy annual.

Reseda Odorata. Very fragrant	Pkt., 5c.; oz., 15c.
Grandiflora. Large flowers	Pkt., 5c.; oz., 15c.
Machet. Dwarf. Flowers red	Pkt., 10c.; 1/4 oz., 20c.
Golden Queen. Dense dwarf growth. Flowers golden yellow	Pkt., 10c.; 1/4 oz., 20c.
Allen's Defiance. The largest. Very fragrant	Pkt., 10c.; 1/4 oz., 20c.

MOON FLOWER.

(Ipomoea Mexicana Grandiflora.)

Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy.

Pkt., 10c.

MORNING GLORY.

The tall varieties are popular, well known, rapid growing climbers of the easiest cultivation. The Minor, or Dwarf varieties flower very freely and do not require support.

Convolvulus Major. Tall. Choice mixed	Pkt., 5c.; 1 oz., 15c.
Tall Double Mixed	Pkt., 10c.

Brazilian. Mixed	Pkt., 10c.
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Imperial Japanese. Has very large flowers in great variety of most exquisite colorings, and handsome, variegated foliage. Mixed	Pkt., 10c.; oz., 25c.
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Convolvulus Minor. Dwarf mixed.	Pkt., 5c.; oz., 15c.
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MUSA ENSETE.

(Abyssinian Banana.)

Splendid tropical plant, very striking.	Pkt., 25c.
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NASTURTIUM (Tropaeolum.)

These well known flowers need no description. The Dwarf Varieties have also recently been greatly improved and are now among the most attractive bedding and border plants. All Nasturtiums are rapid growers, flowering best where the soil is not too rich. Hardy annuals, of easy cultivations, the tall varieties growing five to ten feet high. (See cut.)

Tall Varieties.

Landri Nigrum. Black. Very fine.	Pkt., 5c.; oz., 15c.
Napoleon III. Fine bright yellow.	Pkt., 5c.; oz., 15c.

Lilli Schmidt. Rich scarlet.	Pkt., 5c.; oz., 15c.
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Crown Prince of Prussia. Blood red.	Pkt., 5c.; oz., 15c.
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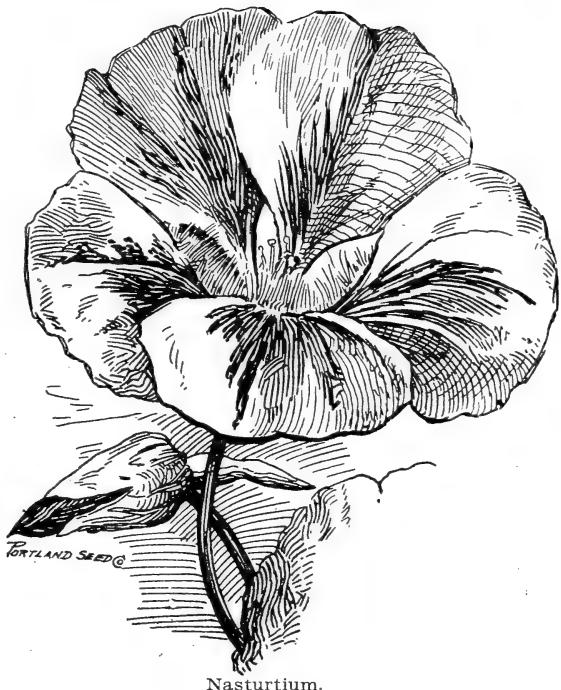
Giant of the Battles. Sulphur and red.	Pkt., 5c.; oz., 15c.
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Lobbianum Varieties. The very finest flowering kinds.	Pkt., 5c.; oz., 15c.
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Madame Gunter's Hybrids. New, having a richness of color and a variety of brilliant shades and markings hitherto unknown.	Pkt., 5c.; oz., 20c.
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Fine Mixed	Pkt., 5c.; oz., 10c.
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Collection of the Five Named Varieties for 20c.



Nasturtium.

NASTURTIUMS—Continued.**Dwarf Varieties.**

King Theodore. Rich velvety black	Pkt., 5c.; oz., 15c.
White Pearl. Almost pure white	Pkt., 5c.; oz., 15c.
Ruby King. Dark red, fine form	Pkt., 5c.; oz., 15c.
Sunlight. Finest of the yellows	Pkt., 5c.; oz., 15c.
Spotted. Odd, fantastic markings	Pkt., 5c.; oz., 15c.
Tom Thumb. Intense scarlet	Pkt., 5c.; oz., 15c.
Dwarf Mixed. Finest varieties	Pkt., 5c.; oz., 15c.

The above Collection, 7 packets, for 25c.

NEMOPHILA.

Hardy annuals of neat compact growth. Free bloomers.

Mixed	Pkt., 5c.
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NIGELLA.

(Love-in-a-Mist, or Devil-in-the-Bush.) Compact growing, free flowering plants, with curious looking, showy flowers and finely cut foliage. Hardy annuals.

Mixed	Pkt., 5c.
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Nicotiana.

(Affinis.)

A very showy plant, producing pure white, star-shaped flowers of delicious perfume. Taken up in the fall, cut back and potted, will bloom freely all winter.

Half hardy annual, three feet high.

Pkt., 5c.

PAMPAS GRASS.

(Gynerium Argenteum.)

A noble ornamental grass, easily grown from seed, producing majestic plumes, that are inimitable for winter decoration.

Pkt., 5c.

PERILLA NANKINENSIS.

Dark purple foliage plant.

PENTSTEMON.

Beautiful, hardy, perennial, herbaceous plants, with extremely brilliant blooms. Their bell-shaped flowers are borne on long spikes, and are produced abundantly all summer.

Mixed	Pkt., 5c.
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PETUNIA (Hybrida).

Too much cannot be said in praise of the Petunia as a bedding plant. Our clear, bright summers seem to bring out its best qualities. During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form, large and small, fringed and plain, double and single. Hardy annual. Large assortment.

Single Fine Mixed	Pkt., 5c.
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Single Choicest Mixed	Pkt., 10c.
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Single Fringed. Large flowered	Pkt., 25c.
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Double White. Large flowered	Pkt., 25c.
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Double. Choicest mixed	Pkt., 25c.
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PHORMIUM.

(New Zealand Flax.)

Gerax Fol Vas. Has handsome variegated foliage.

Pkt., 10c.



PSYCHE.

Pansies

The Pansy is a plant that we all delight to grow in plentiful supply for flowers all the year. For very early outdoor bedding the seed is sown in the fall, in a cold-frame, or in rich, moist garden beds. In outdoor beds, raised a few inches above the ground, with a mulch of dry leaves and some brush to hold them in place, Pansies will often winter nicely, and bloom until mid-summer, when a relay of young, vigorous plants should be ready to replace them. Spring sowing should be made early, so as to secure good flowers during the early rains. Early fall sowing gives the finest flowers.

Our strains of Pansy seed cannot be surpassed in color and blooming qualities. The collections offered will give superb flowers in a great variety of beautiful colors.

Trimardeau Giants

These are remarkably large Pansies, which for size of flower and robust growth eclipse all other strains. Their range of color has heretofore been limited, but this season we are able to offer several grand varieties.

Pkt.			
GIANT WHITE	...10c.	GIANT BLACK	....10c.
GIANT YELLOW	...10c.	VIOLET BLUE	....10c.
GIANT STRIPED	...10c.	GIANT MIXED	....10c.
MIXED	.....	1/4 oz., 75c., 1 oz., \$2.00	

SPECIAL OFFER.

1 Pkt. each of the Above Six Kinds. 50c.

BUGNOT. Its flowers are of enormous size and circular form; the petals are of great substance and velvety appearance, each one bearing a large, deeply colored blotch that runs out in delicate veins to the edge; the shadings comprise tints of red, bronze and brown not found in any other mixture.

Pkt., 25c.; 1/4 oz., \$1.00.

Psyche

Novelty (See Cut.)

Not one of the many Pansy varieties has such a winning appearance as Psyche. The plant is perfect in habit and very floriferous. Each flower is elegantly curled and undulated and in every respect a beauty in form and color. The characteristic five velvety violet blotches or eyes are surrounded by a broad white edge. Comes true from seed. Pkt., 25c.

PEACOCK (New).

A striking variety; the upper petals being of a beautiful ultramarine blue, while the lateral and lower are of a deep claret. Edged with white. Pkt., 25c.

Exposition Collection

of the finest new

Large Flowering Pansies

RAINBOW. (Pheasant's Eye.) A very fine strain of mammoth pansies. Pkt., 10c.

FIRE KING. Golden Yellow, upper petal purple, very handsome. Pkt., 10c.

PRINCE BISMARCK. Brown and golden bronze, remarkably beautiful. Pkt., 10c.

SNOW QUEEN. (Candidissima.) Very large, satiny white. Pkt., 10c.

GOLD MARGINED. Splendid large flowers in many colors, edged with gold. Pkt., 10c.

SILVER MARGINED. Handsome large flowers, silver margined. Pkt., 10c.

QUEEN OF THE BLUES. Flowers large, azure blue. Pkt., 10c.

KING OF THE BLACKS. This is an exceptionally fine strain of this handsome variety, and we recommend it highly. Pkt., 10c.

COQUETTE DE POISSY. Reddish lavender, three maroon blotches on lower petals; novel and distinct. Pkt., 10c.

ALBA PURA. (Lady-in-White.) A beautiful, new, pure white. Pkt., 10c.

YELLOW GEM. A lovely, rich, pure yellow. Pkt., 10c.

PRESIDENT CARNOT. A fine new variety of the Odier type. Pkt., 10c.

VICTORIA—Red Flowered. The blooms are of good substance and form and deep claret red color. Pkt., 15c.

A Special Pansy Seed Offer

One full size Pkt. of each variety in the above collection (13 Pkts.) for only 90c.

Any Six Pkts., your selection, for 50c.

CASSIER. This is a very fine mixture of Pansies, marked with three or five blotches on rich backgrounds. The flowers are very large, round, and borne on stiff stalks emerging from bushy, compact plants. Pkt., 25c.; 1/4 oz., \$1.00.

ODIER or BLOTTCHED. Superb, large flowers, beautifully blotched with rich and varied colors. Extra mixed. Pkt., 25c.; 1/4 oz., \$1.00.

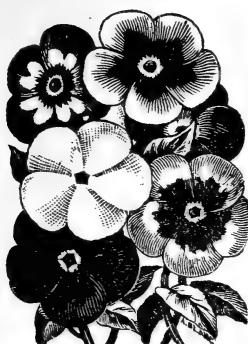
PARISIAN LARGEST SPOTTED. New, very large flowering; very handsome. Pkt., 15c.

EXTRA MIXED. Large flowering. Pkt., 10c.; 1/4 oz., 50c.; 1 oz., \$1.50.

FINE MIXED. Good assortment. Pkt., 5c.; 1/4 oz., 40c.; 1 oz., \$1.00.

Pansy Plants

See Plant Department.



Phlox Drummondii.



Pink.



Poppies.



Portulaca.

PHLOX DRUMMONDII.

The blooms of Phlox Drummondii are unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. They are abundant, almost covering the foliage, and of long duration. Very desirable, and easily grown. Hardy annual, one foot high. (See cut.)

Fine Mixed	Pkt., 5c.
Large Flowering. Mixed	Pkt., 5c.
Large Flowering. Scarlet	Pkt., 5c.
Large Flowering. White	Pkt., 5c.
Dwarf. Mixed	Pkt., 5c.
Decussata. Perennial. Mixed	Pkt., 10c.

PINK (Dianthus).

The Dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy, and become perennial in warm climates.

Chinensis. Double mixed	Pkt., 5c.
Hedewigii. Color varies from richest velvety crimson to delicate rose.	
Single Mixed	Pkt., 5c.
Double Mixed	Pkt., 5c.
Laciniatus. Fine double fringed, finest assorted colors. Double mixed	Pkt., 5c.
Plumarius. (Sweet May Pinks.) Very fragrant. Fine mixed	Pkt., 5c.
Scoticus. Handsome double white	Pkt., 10c.

PYRETHRUM.

Parthenium Aureum. (Golden feather) ...	Pkt., 10c.
Selaginoides. Fine, fern-leaved sort	Pkt., 10c.

PRIMROSE, EVENING.

(Oenothera.)

The Oenothera, or Evening Primrose, produces large, showy blossoms, which are fully expanded only during the evening and early in the morning. The flowers, which are from three to four inches across, attract much attention on account of their size, beauty and the rapidity with which they open. They are constant and prolific bloomers.

Fine Mixed	Pkt., 5c.
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Primrose.

RHODANTHE.

A charming annual. Flowers everlasting. Mixed	Pkt., 5c.
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SALVIA (Flowering Sage).

Very ornamental; flowers borne in spikes of fiery red or crimson, and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil, one to two feet apart. Tender perennials, but bloom the first season.

Salvia Splendens. Brilliant scarlet	Pkt., 10c.
Salvia Farinacea. Hardy annual. Flowers light blue, compact bush	Pkt., 10c.

SAPONARIA.

Pretty dwarf bedding plants. Red, white and scarlet flowers. Hardy annuals.

Fine Mixed	Pkt., 5c.
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SALPIGLOSSIS.

Produces very showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals.

Tall Mixed	Pkt., 5c.
Fine Dwarf Mixed	Pkt., 5c.



Salvia.

POPPY (Papaver).

The Poppy is well known and really a magnificent flower; borne separately on tall stalks; both double and single, and of many bright colors. They are hardy annuals, and may be sown as soon as the ground can be prepared.

Double Carnation. Fringed colors; dazzling. Mixed	Pkt., 5c.; 1 oz., 25c.
Shirley. White, through delicate shades of pink to crimson. Fine for cutting. Best mixed	Pkt., 10c.; 1/4 oz., 25c.
Nudicaule. (Iceland Poppy.) Dwarf. Showy yellow flowers.....	Pkt., 10c.; 1/4 oz., 40c.
Danebrog. (Danish Flag.) Scarlet, with a white spot at the base of each petal; brilliant. Pkt., 5c.	
Double Scarlet or White.....	Pkt., 5c.; 1 oz., 25c.
Double American Flag. White bordered with scarlet.	Pkt., 5c.

Umbrosum. Rich vermillion, with a glossy black spot on each petal. Single	Pkt., 5c.
Bracteatum. Hardy perennial. Very showy. Red.	Pkt., 5c.
California Poppy. (See Eschscholtzia.)	

PORTULACA.

Brilliant dwarf annuals, only 6 inches high, luxuriating in warm situations, and blooming profusely from early summer to autumn. For low beds and masses of color, from spring until frost, they are indispensable; colors range through innumerable shades of red, yellow, pink, striped, white, etc.

Single Mixed	Pkt., 5c.
Double Mixed	Pkt., 10c.

PRIMULA (Primrose).

The first three varieties named below are hardy, early blooming garden plants, and the others beautiful winter blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold.

Polyanthus. Early blooming, dwarf growing plants, valuable for beds. Mixed	Pkt., 10c.
Vulgaris. Yellow, common English Primrose.....	Pkt., 10c.
Japonica. (Japanese.) Mixed, all colors. Pkt., 10c.	
Sinensis. Choice fringed varieties.	
Sinensis. Fine mixed	Pkt., 25c.
Sinensis. Alba Magnifica. Large white. Pkt., 25c.	
Sinensis. Rubra. Large red	Pkt., 25c.
Sinensis. Double finest mixed	Pkt., 50c.
Obconica. Grandiflora Hybrida. Single mixed	Pkt., 25c.



Latest Creations in Sweet Peas

Six Grand New Novelties.

COLUMBIA COLLECTION

Special—Full Collection (6 pkts.) for 40c.

"AMERICAN QUEEN."

Of vigorous growth, bearing uniformly three large flowers on a long stem and most profuse in bloom. The standard is extra large, of unusual height, erect and pointed at top; color a clear "salmon red," the large wings being of a bright deep rose. Pkt., 10c.; oz., 15c.; 1/4 lb., 40c.

COCCINEA.

A distinct new color and "a beautiful thing," although the flowers come only two on a stem and are not extra large. They are self-colored in a bright rich cherry, intensely brilliant and decidedly new.

Pkt., 10c.; oz., 15c.; 1/4 lb., 40c.

JEANIE GORDON.

This charming novelty is one of the most attractive varieties sent out for some years; the standards are of a bright rose color, shaded cream, slightly hooded wings, creamy suffused rose. Large flowers; similar to the beautiful Crown Jewel, but on a cream ground.

Pkt., 10c.; oz., 15c.; 1/4 lb., 40c.

JOSEPHINE WHITE.

This is an extremely early flowering dwarf selection of Emily Henderson. It is undoubtedly the very earliest flowering pure white sweet pea, and as the vines are slightly taller and more vigorous in growth than those of Mont Blanc, we think the Josephine White will be the most popular for general garden culture. The vines are two and a half feet in height when in full flower.

Pkt., 10c.; oz., 15c.; 1/4 lb., 40c.

MISS WILLMOTT.

Extra large standards, of the richest orange-pink, delicately shaded rose; wings also orange-pink. The enormous flowers are borne erect upon stiff stems from twelve to sixteen inches long. One of Eckford's finest novelties.

Pkt., 10c.; oz., 15c.; 1/4 lb., 40c.

THE HON. MRS. E. KENYON.

A beautiful primrose color, deeper than any other in that shade; a bold giant flower and a most desirable variety. This is really very fine and can be described briefly as an enlarged and improved Mrs. Eckford.

Pkt., 10c.; oz., 15c.; 1/4 lb., 40c.

"LEWIS & CLARK EXPOSITION MIXTURE" OF THE CHOICEST SWEET PEAS.

Last year we put up a mixture under this name which gave universal satisfaction. This year we have added many novelties, and now believe this mixture contains the cream of all Sweet Peas. Remember these are all grown separately and then mixed together. No finer mixture can be bought anywhere. Pkt., 1 oz., 15c.; 2 oz., 25c.; 1/4 lb., 40c.; 1 lb., \$1.00.

FOR YOUR CONVENIENCE we have grouped the different varieties under their colors. We offer you only the CHOICEST and BEST of each color.

PRICE: All varieties, except where otherwise stated, 5c. per pkg., 10c. per oz., 20c. per 1/4 lb., 60c. per lb., postpaid.

WHITE.

BLANCHE BURPEE. A grand large flower of beautiful form; firm, lasting substance and snowy whiteness; flowers on long stiff stem. Vines are of strong growth, blooming profusely throughout the season.

EMILY HENDERSON. The earliest blooming standard, pure white. Large flowers.

SADIE BURPEE—White Seeded. Flowers are of the largest size and purest snowy white. The large flowers come in threes at the top of stiff stems and are of firm substance, lasting well when cut.

MONT BLANC (New). This is extremely early. It begins to bloom when only twelve inches high. Seldom attains more than two feet in height. The flowers are a pure paper white, standard, broad, rounded in form, slightly notched in center.

Pkt., 10c.; oz., 15c.; 1/4 lb., 35c.

CREAM or LIGHT YELLOW.

GOLDEN GLEAM. A lovely yellow of beautiful form and good size.

MRS. ECKFORD. Quite large size. A beautiful shade of light primrose-yellow; fine for cut flowers.

QUEEN VICTORIA. Color a soft primrose-yellow, slightly overlaid with faint purple.

STELLA MORSE. The color effect is richer than in any other of the creamy-yellow varieties. Has a faint tinge of pink underlying the creamy shading, producing a true apricot shade.

BLUSH (Very Light).

MODESTY. Almost white, but suffused with pink.

SENSATION. Large flowers; standard well expanded, of delicate silky texture, suffused with faint blush pink.

PINK (Light).

COUNTESS OF LATHOM. New. Fine large flowers. A soft cream tint heavily shaded with soft flesh-pink in the center of the standard and wings, shading much lighter at the edges.

ELIZA ECKFORD. Standard flesh-pink, suffused with silvery white; wings white, occasionally suffused with soft pink.

KATHERINE TRACY. Soft rosy pink, lighter at edges. A fine large flower, and of strong vigorous growth.

LOVELY. The most beautiful shades of soft shell-pink, changing to very light rose at the outer edges. Grand flowers of large size.

PINK (Deeper Shades).

APPLE BLOSSOM. Large, beautifully hooded flowers; standard heavily shaded and edged with soft rose in silvery white; wings white with deep rose in center.

BLUSHING BEAUTY. Soft rose-pink, delicately suffused on a silvery-white ground.

PRIMA DONNA. A most beautiful bright shade of blush-pink. Flowers of large size and finest form.

ROYAL ROBE. Fine large flowers of beautiful form and delicate coloring; standard rich flesh-pink; wings soft carmine-rose, a beautiful shade.

ROSE (Rich Shades).

FASHION. Large flowers. Soft shade of rose-magenta, spread over the whole flower and deepening at base of standard.

LORD KENYON. (New.) A fine large flower, three on a stem, bright rose-pink shaded more heavily at the edges of the standard and wings and with distinct richly colored veining.

MRS. DUGDALE. One of the largest-flowered of all, coming uniformly three on a stem. The standard is of a light carmine-rose with faint markings of primrose; wings of the same tint.

PRINCE OF WALES. Large flower, bright self-colored deep-rose tint. The flowers are beautifully hooded.

ROYAL ROSE. Deep rosy pink, with wings of a lighter shade; flowers of largest size and fine form.

RED and SCARLET.

BRILLIANT. A very bright crimson-scarlet. Standard broad and slightly hooded; wings widely spreading.

FIREFLY. The favorite bright-scarlet variety until the introduction of Brilliant and Salopian. The flower is of medium size, glowing scarlet.

MARS. An intense glowing scarlet of grandiflora form; wings heavily suffused with rose.

PRINCE EDWARD OF YORK. Flowers extra large and boldly expanded; standard is a bright glowing scarlet bordering on salmon; wings are soft deep rose.

SALOPIAN. This is decidedly the finest scarlet Sweet Pea in cultivation. Flowers of largest size and finely hooded form, are borne uniformly three on a stem.

ORANGE and SALMON.

GORGEOUS. Deep salmon-orange suffused with an orange-salmon or deeper shade. The coloring is intensely brilliant.

HON. F. BOUVERIE. Soft pinkish salmon, wings shade to a lighter salmon-buff at the edges. A most charming variety.

LADY MARY CURRIE. The best of the rich orange-tinted varieties, excepting only the new Miss Wilmott; standard large, heavily veined with salmon-pink and shaded in lower portion with carmine; wings large, recurved, and of a soft rose-pink, veined with a deeper shade bordering on buff.

VENUS. Lovely salmon-buff, shaded with rosy pink. The fine large flowers become deeper in shade as they remain open.

PINK and WHITE.

BLANCHE FERRY. Standard wide and erect, bright rose-pink; wings creamy white, tinted with rose.

EXTRA EARLY BLANCHE FERRY. An improved strain of the very popular Blanche Ferry, beginning to flower fully a week earlier.

BLUE and WHITE.

LOTTIE ECKFORD. Large silvery-white flowers, beautifully shaded and edged with soft lavender.

MAID OF HONOR. The flowers are beautifully shaded with light blue on a white ground and boldly edged with narrow border of deep rich violet; very dainty.

LAVENDER and LIGHT BLUE.

ADMIRATION. Large flower, delicate shade of rosy lavender. One of the very choicest varieties.

COUNTESS OF RADNOR. Fine size and form. A beautiful shade of light lavender, with faint purplish tinge.

DOROTHY TENNANT. A finely hooded flower; self-colored in a rich shade of rosy mauve. Flowers of large size and good form.

LADY GRISEL HAMILTON. Most attractive light lavender shading; flowers of large size.

LADY NINA BALFOUR. Delicate light lavender or lilac, entirely free from any reddish tone.

NEW COUNTESS. An improved Countess of Radnor, the flowers being a clear light lavender.

BLUE and PURPLE.

CAPTAIN OF THE BLUES. The flowers have the appearance of being a true blue; bright and attractive.

COUNTESS CADOGAN. Large flowers; a light bluish purple in standard and clear blue in wings. The color effect is that of a bright blue.

EMILY ECKFORD. Flowers of large size; standard light rosy purple; wings rich deep blue.

NAVY BLUE. The large flowers are of a deep, glowing violet-purple, having the effect of a dark navy blue.

CLARET and MAROON.

BLACK KNIGHT. Large size; standard a rich wine-brown or dark claret; wings heavily shaded with brownish purple.

CAPTIVATION. The flowers are large and of a beautiful bright claret shade.

DUKE OF SUTHERLAND. Standard erect, pointed, of a deep claret shade with strong reddish tinge, deepening to rich purple at the base; wings wide, heavily rolled, and of a deep violet-purple.

DUKE OF WESTMINSTER. Grand large flowers. A beautiful shade of rosy claret.

OHELLO. A deep maroon self-color; very large size; standard slightly hooded, widely expanded, and of grand hooded form.

SHAHZADA. Intensely dark maroon, with a tint of purple in standard and inner portion of wings; rich.

STANLEY. Rich, dark, glossy flowers of large size, self-colored in darkest maroon of a burnish tint.

STRIPED and VARIEGATED.

AMERICA. Heavily striped with bright blood-red on silvery-white ground; showy.

GRAY FRIAR. A most charming variety, heavily shaded with watered purple markings on creamy-white ground.

JUANITA. Large size, beautiful form, with broadly striped markings of delicate light lavender on a creamy-white ground.

LOTTIE HUTCHINS. Large flowers, delicately flaked and striped with light pink on a rich creamy ground.

MRS. JOS. CHAMBERLAIN. Ground color is a clear silvery white, brightly striped soft rosy pink with most attractive effect.

PINK FRIAR. Soft carmine-rose, suffused on a silvery or crystalline white ground in finely watered markings and heavily backed with rosy carmine.

PRINCESS OF WALES. Flowers of large size, striped throughout with mauve on a white ground.

WAWONA. The lovely flowers are of a delicate heliotrope, beautifully striped with faint creamy white; they are of large size and finest form.

Sweet Peas in Mixtures

EXTRA MIXED.—Contains a very large variety of the old standard sorts. Good value.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 40c.

LARGE FLOWERING MIXED.—This mixture, although not embracing the latest novelties, contains a beautiful assortment of the large flowering kinds.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Lewis and Clark Mixed—See page 44.

Cupid, or Dwarf Sweet Peas

Dwarf in plant only, the blossoms being as large as the tall kinds. They grow from four to six inches high, and are beautiful grown in pots or planted for borders. Blossoms are borne in clusters of two or three, on long stems above the foliage. Fragrant.

White, Pink, Scarlet, Primrose, Lavender, Striped, Maroon or Mixed.

Price: All 5c per Pkt.; 15c. per oz.; $\frac{1}{4}$ lb., 40c.; lb., 85c.

PEA, EVERLASTING.—(*Lathyrus latifolius*)—Hardy perennial climber. Flowers similar to Sweet Peas, but not fragrant.

White, pkt., 10c.; Mixed, pkt., 5c.



Stocks.

STATICE. (*Sea Lavender*)
Beautiful for winter bouquets. Flowers very pretty.
Annual Varieties, Mixed Pkt., 5c.
Perennia. Varieties, Mixed Pkt., 5c.

STIPA PENNATA.
Feather Grass. Grown for their plumes. Pkt., 10c.

Stocks

DOUBLE TEN WEEKS.

These popular flowers are easily grown, and are so highly fragrant and of such great beauty that they deserve a place in every garden. They are great improvements over the Gilliflowers of the olden times, the flowers being much larger and more densely double, and a much larger variety of colors.

Dwarf, Large Flowering. White Crimson, Rose, Light Blue or Mixed Pkt., 10c.
Emperor, or Perpetual. Mixed Pkt., 10c.
Winter, or Brompton. Mixed Pkt., 10c.
Giant White Perfection Pkt., 25c.

SUNFLOWER. (*Helianthus*)

Stately growing annuals with immense golden yellow flowers; effective for garden decoration.

Double Dwarf Variegated. Leaves beautifully spotted with yellow Pkt., 5c.; oz., 25c.
Double Dwarf. Covered with 3-inch flowers of brightest golden yellow Pkt., 5c.; oz., 20c.
Globulus Fistulosus. Saffron, very double and handsome Pkt., 5c.; oz., 25c.
Multiflora. Beautiful, double yellow flowers. Pkt., 5c.; oz., 25c.

Large Russian Single Pkt., 5c.; oz., 10c.

ARGYROPHYLLOUS. (*Texas Silver Queen*)
Has handsome silver foliage and a profusion of small, elegant single flowers Pkt., 5c.; oz., 25c.

SWEET WILLIAM.

(*Dianthus Barbatus*)

A well-known remarkably free-flowering plant, of brilliant colors, ranging from snow white to darkest crimson and purple. They emit a very delicate and refreshing fragrance. Hardy perennial.

Single Mixed. Very beautiful Pkt., 5c.
Dunetti. Dark crimson, single Pkt., 10c.
Pure White. Single Pkt., 5c.
Double Mixed Pkt., 10c.



Verbena.

SCHIZANTHUS.
Beautiful garden annuals, flowers charmingly fringed and delicately colored; 1 to 2 feet.
Mixed Colors Pkt., 5c.

SCABIOSA. (*Sweet Scabious, or Mourning Bride*)

Free-flowering annuals; colors, white, carmine, lilac, maroon, etc. Very effective for garden decoration and valuable for cutting; 1 foot.

Dwarf Double, mixed colors Pkt., 5c.

SMILAX.

Charming tender perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful. Excellent for decoration. Pkt., 10c.

SNAPDRAGON.

(*Antirrhinum*)

One of the most useful and showy of border plants. Of almost every color, and striped as beautifully as Carnations. They have recently been much improved, and are now really magnificent. Hardy perennial.

Tall, Finest Mixed Pkt., 5c.

Dwarf, Finest Mixed Pkt., 5c.

Pure White Pkt., 10c.



Sweet William.

SWEET SULTAN. (*Centaurea*)

Favorite annual of easy culture. Showy for the garden and greatly prized for bouquets. The large heads of bright flowers are very fragrant. 1½ feet.

Sweet Sultan. Mixed colors. Purple, white, etc. Pkt., 5c.

SWEET ROCKET. (*Hisperis*)

An old hardy garden favorite. Fragrant white flowers; 2 to 3 feet. Pkt., 5c.

THUNBERGIA.

Rapid-growing annual climbers; splendid for trailing over trellises, fences, etc.; beautiful flowers borne in profusion; buff, white, orange, etc.; 4 to 6 feet high. Mixed Colors Pkt., 5c.

VIOLETS.

Viola odorata is the well-known English Violet, a free flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded, moist place.

Odorata Blue. Very fragrant Pkt., 10c.

Odorata White. Very fragrant Pkt., 10c.

Odorata. Finest Mixed Pkt., 10c.

VERBENA.

Very few annuals will make such a gorgeous display during the summer months, or furnish more flowers for cutting, than the Verbena. Start seed in the house or under glass early in the spring, and transplant after three or four inches of growth. They flower in July and continue strong and healthy until destroyed by frost.

Hybrid. Very finest mixed Pkt., 10c.; ¼ oz., 30c.
Mammoth. Extra large, fine. Mixed. Pkt., 10c.; ¼ oz., 50c.

Candidissima. White Pkt., 10c.

Scarlet Defiance. Fiery scarlet Pkt., 10c.

Striped, Blue. Each Pkt., 10c.

Coerulea. Bright blue Pkt., 10c.

Yellow. Primrose color Pkt., 10c.

LEMON VERBENA.

Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower. Pkt., 10c.

VINCA.

Tender perennial. Fine for pot culture. Mixed Pkt., 10c.

VISCARIA.

(Rose of Heaven.) Their profusiveness of bloom will always rank them among general favorites. Fine Mixed Pkt., 5c.

WALL FLOWER.

(*Cheiranthus cheri*). Produces spikes of beautiful, exceedingly fragrant flowers. Half hardy perennial.

Mixed Pkt., 5c.

Dark Brown Pkt., 10c.

Yellow Pkt., 10c.

Finest Double Mixed Pkt., 10c.

VALERIANA.

Border plants.

Fine Mixed Pkt., 5c.

VIRGINIA STOCK.

A fine, early flowering plant. Hardy annual.

Mixed Pkt., 5c.

XERANTHEMUM.

Everlasting flowers. Hardy annual.

Double Mixed Pkt., 5c.

ZEA.

Japonica Variegata.

(Ornamental Maize.) Finest Mixed. All varieties.

Gracillima Pkt., 5c.

ZINNIA ELEGANS.

Of easiest cultivation and should be in every collection. Half hardy annuals.

Tall Double. Mixed Pkt., 5c.

Dwarf Double. Mixed Pkt., 5c.

Dwarf Tom Thumb Pkt., 5c.



Violet.

GRASS AND CLOVER SEEDS

Our Western country is rapidly being settled and the thousands of acres of free range lands that we formerly had are being fenced and put under cultivation.

The farmers and stockraisers should, and are, turning their attention to the raising of more grass, clover, grain and forage plants. There are a great many of these seeds offered by Eastern seedsmen (often under new names), that do not produce profitable crops here. We have prepared for you a list of the kinds that are best adapted to this Coast, and by carefully perusing this and the following pages you will get valuable information that has taken years of study, trial and experimenting to procure.

We also wish to impress on your minds the fact that the seeds we offer you are all carefully grown, harvested and cleaned by experts in this line of work, and you can rely on getting the very best in the market if you send US your orders.

PRICES

Prices per single pound include postage. Prices per hundred pounds are only printed so as to give you a general idea of the average selling prices.

YOU GET YOUR MONEY'S WORTH.

Grass Seed prices are continually changing; we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity, or order what you want at catalog prices; we guarantee that we will give you full value for the money sent, whether the price be higher or lower. In other words, we will always ship seed to cover the full amount sent to us.

Alfalfa or Lucerne Clover

(Medicago Sativa.)

The immense cattle and sheep interests of the Western States could not exist if it were not for Alfalfa. It is no doubt one of the best fodder plants in the West. It should be cut just before coming into bloom. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow, and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. Notwithstanding its great yield, it does not exhaust the soil, but rather improves it, making barren land fertile and productive. It will not succeed on hard, clayey soils. It sends down a strong tap root, and soils suited to this peculiarity of the plant are best adapted to its complete success. Its roots, in seeking moisture, penetrate to incredible depths.

Alfalfa will grow anywhere from about sea level to 7000 feet elevation. It succeeds best in soil rich in lime, potash and phosphoric acid.

Sow from fifteen to twenty pounds of seed to the acre, and harrow or brush it in well. Seeding thick will produce fine stalks—a desirable feature, either in hay or pasture. The seed should be sown in spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost Per lb., post-paid, 30c.; 100 lbs., \$17.00.

Turkestan Alfalfa

This new Alfalfa, introduced from Turkestan, has been experimented with more or less for the past few years. In some places it has proven a great success. In general appearance it is very much like our regular Alfalfa. It is claimed that it will produce a luxuriant growth in the driest and hottest sections, without irrigation. It is perfectly hardy and will stand extreme cold in winter without harm. It yields a very heavy and rich crop of hay and makes a permanent pasture.

We have secured a good stock of the pure, genuine seed, which we offer at the following prices:

Per lb., post-paid, 45c.; 100 lbs., \$30.00.

IT DOES NOT PAY

To buy cheap Grass Seed just to save two or three cents per pound. What does it amount to? Comparatively nothing. You may save twenty-five or fifty cents per acre at seeding time, but you will have a ton or two less hay at cutting time.



ALSIKE CLOVER.

AlsiKe, or Swedish Clover

(Trifolium Hybridum.)

A perfectly hardy variety which is rapidly growing in popular favor. It yields large crops of excellent hay, and under favorable conditions may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drought and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses. It is perennial and produces a mass of long, fibrous roots, which hold the soil, making it useful for permanent pasture on hillsides which are liable to wash. When used alone sow from eight to ten pounds per acre.

Per lb., post-paid, 30c.; 100 lbs., \$15.50.

Bokhara, Sweet or Honey Clover

(Melilotus Alba.)

A rapid growing white flowered sort; excellent for bees. Sow ten pounds per acre.

Per lb., post-paid, 40c.; 100 lbs., \$24.00.

Clover—Continued**RED CLOVER.**

(Trifolium Pratense.)

The standard Clover for all purposes, either pasture, hay, or for improving and enriching the soil. It is hardy and succeeds well on any good soil. It yields the heaviest crop of any Clover except Alfalfa, and makes superior hay—especially if mixed with Timothy—either for dairy cows or for general use. Sow from twelve to fifteen pounds per acre, being careful to get it evenly distributed over the ground.

Per lb., post-paid, 25c.; 100 lbs., \$13.50.

MAMMOTH CLOVER.

This variety grows five to six feet high, and is used almost exclusively for plowing under for manure. Sow from twelve to fifteen pounds per acre.

1 lb., post-paid, 27c.; 100 lbs., \$14.50.

WHITE DUTCH CLOVER.

(Trifolium Repens.)

A small variety, having a white blossom. It is of a vining nature, spreading rapidly and will soon cover bare spots if the stand be uneven. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. If sown alone, use six to eight pounds per acre.

Per lb., post-paid, 40c.; 100 lbs., \$25.00.

ESPERSETTE, or SAINFOIN.

(Onobrychis Sativa.)

A deep rooting perennial legume, extensively cultivated on dry, calcareous soils which are too barren for Clover or Alfalfa. It is rather difficult to establish, as the plants are easily killed when young, but when once rooted, will live from ten to twenty-five years. Sow 50 lbs. per acre.

Per lb., post-paid, 30c.; per 100 lbs., \$15.00.



RED CLOVER.

CRIMSON, or SCARLET CLOVER.

(Trifolium Incarnatum.)

Highly commended for pasture, and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high, and has a beautiful crimson bloom. It germinates quickly, grows rapidly, and stools abundantly. Sow from twelve to fifteen pounds to the acre, and harrow in with a light harrow. Cut for hay when in full bloom. Per lb., post-paid, 25c.; 100 lbs., \$10.00.

GRASS SEEDS for Pacific Coast**TIMOTHY.**

(Phleum Pratense.)

This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall, at the rate of twelve pounds per acre, if alone, but less if mixed with other grasses. A bushel weighs 45 pounds.

Per lb., post-paid, 20c.; 100 lbs., \$6.00.

BROMUS SCHRADERI.

(Rescue Grass.)

Also known as *Bromus Unoilooides*. It is well adapted to moist, low lands, and gives a large yield of excellent hay in a short period of time, after which it makes green pasture for the balance of the season. The quickness with which it covers the ground and makes pasture or hay after seeding makes it one of the most valuable of grasses. Two or three crops of hay can be cut in a single season.

Per lb., post-paid, 40c.; 100 lbs., \$25.00.

We are equipped with the latest and best facilities for handling the rapidly increasing grass seed trade. Without doubt we have sold more Grass and Clover Seeds this past season than any other two or three firms located here.



BROMUS SCHRADERI.

Bromus Inermis

(Russian Forage Grass—Awnless Brome Grass.)

This *Bromus*, on account of its strong perennial character, and its unusual drouth-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It will stand the longest drought of all forage plants. Its running roots take a deep and permanent hold upon the land, and it will replace, in a large degree, the fast disappearing Bunch Grasses of Eastern Oregon and Eastern Washington, where it has done well. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle. It is a perennial and yields from four to six tons to the acre. Can be sown in the fall or spring. Sow twenty to thirty pounds per acre.

Per lb., post-paid, 30c.; 100 lbs., \$13.50.

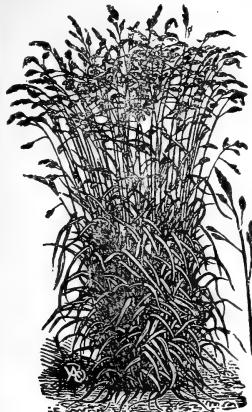


BROMUS INERMIS.

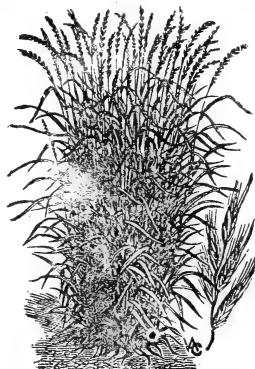
100-lb. Grass Seed Prices subject to change without notice. See note on page 47.

BUY YOUR
GRASS SEED
OF US, AND GET
CLEAN, NEW CROP
SEED.

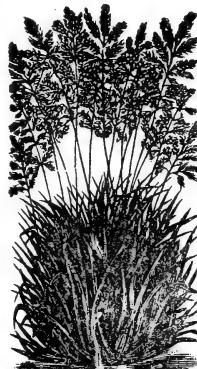
Grass Seed Prices subject to change without notice. See page 47.



Orchard Grass.



Timothy.



Kentucky Blue Grass.



Meadow Fescue, or English Blue Grass.

ITALIAN RYE GRASS.

(*Lolium Italicum*.)

A quick growing grass, attaining a greater height than English Rye, and is very desirable for meadows or permanent pastures. Thrives best on rich soils that are slightly moist. Sow at the rate of 20 pounds per acre. Grows easily and bears an abundance of foliage that makes the best hay imaginable.

Per lb., post-paid, 25c.; 100 lbs., \$9.50.

ENGLISH PERENNIAL RYE GRASS.

(*Lolium Perenne*.)

A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable both for grazing and hay, and will succeed on any good, tillable land.

For Lawns this is used and recommended by many of the best gardeners. If well prepared it makes a fine lawn, and for large grounds and parks is very successful. Does not require the close care that Blue Grass does, and will flourish better under trees and in shady localities. For field crop, sow 30 to 40 pounds to the acre, and if used for lawns, not less than 75 pounds.

Per lb., post-paid, 20c.; 100 lbs., \$9.00.

KENTUCKY BLUE GRASS.

(*Poa Pratensis*.)

One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. It is perennial, and in warm localities, where the ground is kept moist, if it is pastured or frequently cut to prevent the seed from ripening, will continue to grow luxuriantly the entire year.

For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures. It is the best grass known for lawns and parks, and where covered with fine mixture every fall (see (Lawn Fertilizer, watered well and evenly, and cut frequently, will furnish a handsome, velvety lawn for years, requiring no resowing. For pasture, sow 25 to 30 pounds to the acre, but to secure a fine lawn much heavier seeding is required, and not less than 80 pounds should be sown.

Per lb., post-paid, 30c.; 100 lbs., \$15.00.

MESQUITE.

(*Holcus Lanatus*.)

It is usually sown on virgin soil, without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre.

Per lb., post-paid, 20c.; 100 lbs., \$8.50.

MEADOW FESCUE.

(*Festuca Pratensis*.)

A perennial variety growing three or four feet high. It roots deep, thus resisting drought better than most grasses. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures. Valuable to mix with other kinds. Use 30 pounds per acre when sown alone.

Per lb., post-paid, 25c.; 100 lbs., \$11.00.

BLUE GRASS, CANADA.

(*Poa Compresaria*.)

Differs from the Kentucky variety in its flattened, wiry stem. Because of its creeping root stocks, it forms a fine turf; recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil.

Per lb., post-paid, 30c.; 100 lbs., \$15.00.

ORCHARD GRASS.

(*Dactylis Glomerata*.)

One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow twenty-five pounds to the acre.

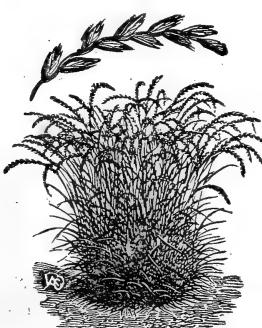
Per lb., post-paid, 30c.; 100 lbs., \$14.00.

TALL MEADOW OAT GRASS.

(*Avena Elatior*.)

Often attains a height of three or four feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Can be fed as a pasture grass, and will generally bear cutting three times. For mixing with Perennial Rye and Alfalfa for sandy soils it is excellent. Sow about 30 to 40 pounds per acre alone, or half that amount if mixed with the above varieties.

Per lb., post-paid, 35c.; 100 lbs., \$20.00.



English Rye Grass.

BROADCAST
SEEDERS
ON PAGE
72.

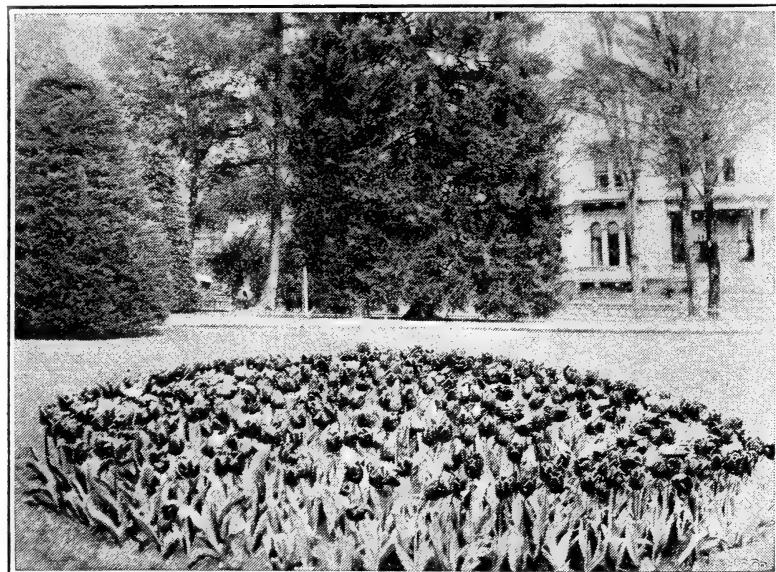


Italian Rye Grass.

BROADCAST
SEEDERS
ON PAGE
72.



Tall Meadow Oat Grass.

"DIAMOND BRAND"

A PORTLAND HOME.
Lawn made from our Fancy Lawn Grass Seed. The bed in the foreground contains 1100 Tulips furnished by us. Send for Bulb Catalog.

RED TOP.

(Agrostis Vulgaris.)

A good perennial grass. Generally sown on permanent pastures. Does well on any soil, but best on moist or even marshy land. Sow 30 pounds to the acre. Per lb., post-paid, 20c.; 100 lbs., \$7.00.

RED TOP, FANCY CLEAN.

Extra heavy. A very superior grade of Red Top that is free from chaff and light seed. One pound of this is better than three of the common. Sow 12 pounds to the acre. Per lb., post-paid, 30c.; 100 lbs., \$15.00.

JOHNSON GRASS.

(Sorghum Halepense.)

A perennial of luxuriant growth. It has strong roots that penetrate to considerable depth, enabling it to withstand drought well. It belongs to the Sorghum family and is sweet and nutritious and much relished by stock. Per lb., post-paid, 35c.; 100 lbs., \$17.50.

BERMUDA GRASS.

(Cynodon Dactylon.)

Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season, and for summer pasture is very valuable. Sow 6 pounds per acre. Per lb., post-paid, 95c.

HARD FESCUE.

(Festuca Duriuscula.)

A fine, rather dwarf growing variety, justly noted for its drought-resisting qualities. Prized by some for lawns. Valuable as a pasture for sheep. Sow 20 pounds per acre. Per lb., post-paid, 35c.; 100 lbs., \$20.00.

FLOATING FESCUE.

(Festuca Fluitans.)

A perennial with long, creeping roots and preferring a rich, muddy or alluvial soil. Trout and wild ducks are very fond of the seed and tender shoots. Per lb., post-paid, 45c.

SHEEP'S FESCUE.

(Festuca Ovina.)

Grows freely in high, dry and open pastures. Its chief merit for sheep pasture is that it occupies land where better grasses refuse to grow. Thirty-five pounds to the acre. Per lb., post-paid, 35c.

WATER FESCUE.

(Glyceria Fluitans.)

This grass grows naturally in and beside ditches, pools, rivers and marshes. All stock likes it. Per lb., post-paid, 45c.

Lawn Grass Seed

FANCY MIXED.

More fine lawns in the Northwest have been made from our mixtures than any other. We use only the choicest, re-cleaned, heavy grass seeds. This mixture of ours will produce a fine, thick, velvety lawn in a few weeks' time, if you prepare the ground properly and sow the seed thickly. Don't buy cheap seed; it only means a poor lawn. Sow our seed at the rate of 1 pound to 20-foot square; 10 to 15 pounds to the average city lot. Per lb., post-paid, 35c.; 10 lbs., \$2.25.

FINE MIXED

A good, strong growing grass, for lawns, that will give satisfaction. Sow 12 to 15 pounds to an ordinary city lot. Per lb., post-paid, 25c.; 100 lbs., \$14.00.

MEADOW FOXTAIL.

(Alopecurus Pratensis.)

One of the very best for permanent pasture. Stands intense summer heat without burning. Sow 25 pounds to the acre. Per lb., post-paid, 45c.

FOWL MEADOW.

(Or False Red Top.)

It yields well when sown on low, moist land, and stands longer in good condition for cutting than most grasses. It can be mowed almost any time from July to October. Sow 25 pounds to the acre, in the spring or fall. Per lb., post-paid, 40c.

CREEPING BENT GRASS.

(Agrostis Stolonifera.)

Well adapted for sandy pastures, near the coast, and good for pasture on low lands, especially when the bottoms are sandy; also for lawns, as it makes a fine and enduring turf. If sown alone, use 2 bushels per acre. Per lb., post-paid, 40c.; 100 lbs., \$25.00.

RHODE ISLAND BENT GRASS.

(Agrostis Canina.)

This somewhat resembles Red Top. It makes a close sod and is valuable for permanent pastures and meadows. Per lb., post-paid, 40c.; 100 lbs., \$25.00.

ROUGH-STALKED MEADOW GRASS.

(Poa Trivialis.)

A most valuable grass which flourishes in moist, rich soils. Twenty pounds to the acre. Per lb., post-paid, 55c.

SWEET VERNAL.

(Anthoxanthum Odoratum.)

Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Per lb., post-paid, 35c.; 100 lbs., \$20.00.

CRESTED DOG'S TAIL.

(Cynosurus Cristatus.)

A perennial grass with short, narrow leaves, particularly valuable for lawns or pastures on dry, light land. Per lb., post-paid, 55c.; 100 lbs., \$40.00.

REED CANARY GRASS.

(Phalaris Arundinacea.)

This is a strong growing perennial, 2 to 4 feet high. It succeeds best on stiff, wet land and flooded fields, and grows fairly well on dry, sandy soil. When designed for hay it should be cut before flowering. Per lb., post-paid, 85c.

Forage, Field and Miscellaneous Seeds

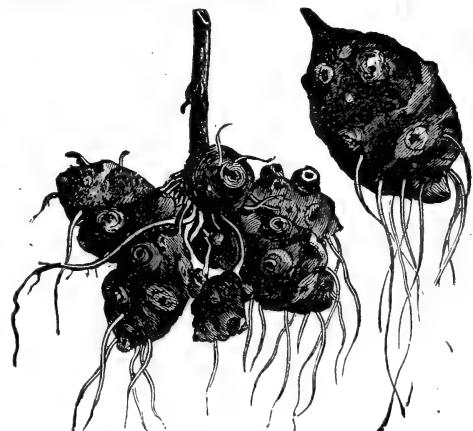
Single pound prices include postage. If ordering by freight or express, deduct 10c. per lb.; 100-lb. prices subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. Special prices on large quantities.

Artichoke Tubers

Planted and cultivated same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, great productivity (over one thousand bushels having been raised on one acre) and ease with which they can be grown. They need not be dug. If hogs are turned in on them they will help themselves by rooting. One acre will keep from twenty to thirty hogs in fine condition from October until April, except when the ground is frozen too hard for them to root. They are also said to be a preventive of cholera and other hog diseases, and they are also highly recommended for milch cows, increasing the yield of milk and at the same time improving their condition. Plant in April or May, two bushels to the acre.

Per lb., post-paid, 15c.; 100 lbs., \$2.00.

If wanted in larger quantities write for special prices.



ARTICHOKE TUBERS

Australian Salt Bush

Best Forage Plant for Arid Soils.

This is a most wonderful forage plant, as it will grow freely in arid and alkali lands that will produce no other vegetation, yielding a marvelously liberal foliage which is eagerly eaten by all kinds of stock. It is of creeping habit. It has been proved that after three or four crops have been grown on alkali land that the soil is then capable of producing any other vegetation. This plant has been very extensively tried at the California Experimental Station, where single plants, grown on the poorest alkali ground, have reached a diameter of 16 feet in one season. One pound of seed will plant an acre if evenly scattered over the surface. The seed should be mixed with ten times its weight of sand or ashes to facilitate its distribution. Sow the seed in the fall or spring (winter sowing is not desirable), before a rain if possible, on well pulverized soil, and cover it lightly (about one-eighth of an inch) with a light harrow or bush. If desired, plants may be grown by sowing the seed in boxes or garden bed, covering lightly, and planting the seedlings when desired, when from two to three inches high, six to seven feet apart. If the weather is dry when transplanting, supply a little water to each plant.

Pkt., 5c.; oz., 15c.; 1/4 lb., 60c.; lb., \$2.00. Special price in quantity.

Broom Corn

IMPROVED EVERGREEN.

An improvement on the common Evergreen. Does not grow as tall as the old variety. The brush is fine and of light green tint.

Per lb., post-paid, 25c.; 100 lbs., \$8.50.

Bird Seed

Not for Planting.

P. S. CO.'S BEST MIXED..... Per lb., post-paid, 20c.
CANARY—Best Re-cleaned Per lb., post-paid, 20c.
HEMP Per lb., post-paid, 20c.
MILLET Per lb., post-paid, 20c.
RAPE Per lb., post-paid, 20c.
CUTTLE BONE—Large Bone Post-paid, 2 for 5c.

Barley

Beardless

The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season and land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

Per lb., post-paid, 15c.; 100 lbs., \$2.25.

Chevalier Beardless Barley

A Great Improvement on the Regular Beardless Barley.

This is much earlier, free from rust and an enormous yielder. Will outyield common Barley two or three times. It stands up well and seems to be adapted to all kinds of soil. The heads are perfectly free from those troublesome beards, and are always filled with good, plump, heavy grains that have a very thin hull. The common Barley is not satisfactory for cutting for hay, but this is excellent, as it has no beards, and grows a much finer lot of straw. It is a decided improvement, and all Barley growers should get a start of this new Beardless Barley.

Per lb., post-paid, 20c.; 50 lbs., \$1.60; 100 lbs., \$2.75.

Common Barley

We always aim to have a nice, clean stock on hand at all times.

Per lb., post-paid, 15c.; 100 lbs., market price.

BUCKWHEAT—See next page.

Cheat Seed

Cheat makes a good crop on low lands. Can be planted in the fall or spring. Sow same as oats, 100 pounds per acre. Demand for Cheat Seed is heavy and supply short this season. For hay it should be cut before it gets too ripe.

Per lb., post-paid, 15c.; 100 lbs., write for price.

Buckwheat

Common. Per lb., post-paid, 15c.; 100 lbs., \$2.75.

SILVER HULL.

A very good and popular variety. Grain is of a light gray color, rounder than the common; has a thin husk; matures earlier and yields heavy. A good milling variety.

Per lb., post-paid, 15c.; 100 lbs., \$3.00.

JAPANESE.

This variety excels all others; yield much heavier; ripens one week to ten days earlier, stands up better and makes better flour. Excellent for bee pasture.

Per lb., post-paid, 15c.; 100 lbs., \$4.00.



JAPANESE BUCKWHEAT.

Corn Wheat

(Or German Roggen.)

This new cereal has been gaining in popularity very rapidly the last few seasons. It is claimed that it will out-yield corn and double the yield of wheat. The kernel is hard, and when ground it makes the same kind of meal as corn, and has superior fattening qualities to either corn or wheat. It yields 50 to 100 bushels of grain which is excellent for fattening hogs or cattle. It takes the place of rye for a green food, yielding nearly twice as much per acre. Every farmer should give this a trial. Prepare your ground the same as you would for oats or wheat, and sow in the spring or fall, at the rate of 75 to 100 pounds to the acre.

Price of seed: Per lb., post-paid, 20c.; By freight or express 10 lbs., 75c.; 100 lbs., \$5.00.

Cow Pea

These so-called "Cow Peas" are really a small bean of strong running growth, with a large and abundant glossy dark-green foliage. Most desirable for enriching the soil and for furnishing a large crop of nutritious forage. These so-called "Cow Peas" gather quantities of nitrogen from the air, a portion of which is conveyed to the soil by the roots, but a much larger amount can be stored in the soil for fertilizing by allowing the vines to die down and plowing them under. They yield as high as 5 to 9 tons of green feed per acre. The vines may be cut either for feeding green or can be cured like clover for winter use. Sow 2 bushels per acre.

Whip-Poor-Will

The earliest maturing variety of upright or bush growth. The seeds may be gathered and the plants harvested more readily than with the running type of growth.

Per lb., post-paid, 20c.; By freight or express, 10 lbs., 90c.; 100 lbs., \$7.00.

Clay Cow Pea

These vine more than the Whip-Poor-Will and are most desirable for ensilage; for this purpose the seed should be planted in the hills with field corn, as the vines running up the corn-stalks are easily harvested and the combination of corn-stalks and bean vines makes excellent ensilage, and the land is more readily cultivated than where the Cow Peas are sown alone.

Per lb., post-paid, 20c.; By freight or express, 10 lbs., 85c.; 100 lbs., \$6.00.

Early Black Eyed Cow Pea

Quick grower. Peas white, with black eye. A good copper and an excellent soil enricher.

Per lb., post-paid, 20c.; By freight or express, 10 lbs., 85c.; 100 lbs., \$6.00.

Field Peas

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog food and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

WHITE CANADIAN.

A leading kind; seed almost white; a heavy cropper.

Per lb., post-paid, 15c.; 100 lbs., \$3.00.

BLUE PRUSSIAN.

Very much like the above, except in color. This variety is largely sold for soup peas.

Per lb., post-paid, 15c.; 100 lbs., \$3.25.

GREEN SCOTCH.

A very handsome, smooth, green pea; a profitable variety.

Per lb., post-paid, 15c.; 100 lbs., \$4.50.

SWISS.

A three-cornered pea; excellent for cooking purposes. Vines small. One peculiarity of these peas is that they are never infected with bugs.

Per lb., post-paid, 20c.; 100 lbs., \$4.75.

Flax Seed

Re-cleaned for planting.

Per lb., post-paid, 20c.; 100 lbs., \$5.50.

Flax for other purposes. Per lb., 20c.; 100 lbs., \$4.50.

Ground Flax, for medicinal uses. Per lb., 25c.

Flax Seed Meal, for feeding purposes. 100 lbs., \$1.60.

Special Prices in Quantity.

Idaho Pea or Coffee Berry

A forage plant, valuable for semi-arid lands. Yields excellent crops of feed for horses, cattle, sheep and poultry. The peas, when nicely browned and ground, make an excellent beverage.

Per lb., post-paid, 25c.; 100 lbs., \$6.00.

Kaffir Corn

An excellent fodder plant, yielding a large crop of fodder during a season. Grows four to five feet high; upright stalk, with numerous large leaves. Greatly relished by cattle and horses. The seed crop is also heavy, sometimes yielding 60 bushels to the acre. It does best sown in drills three feet apart, using six to eight pounds of seed per acre.

Per lb., post-paid, 25c.; 100 lbs., \$6.00.

Lentils

Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons, and are largely used for soups. The leafy stalks make good forage.

Per lb., post-paid, 20c.; 100 lbs., \$5.00.



Millets

Sow 12 lbs. for seed or 20 lbs. for hay per acre.

GERMAN, or GOLDEN

(Panicum Germanicum var.)

An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the Common, and yields a heavier crop of hay.

Per lb., post-paid, 20c.; 100 lbs., \$4.50.

HUNGARIAN.

(Panicum Germanicum.)

A dwarf annual Millet. It is finer than the Common German Millets, but produces a closer stand and yields almost as much per acre as the taller varieties. Superior for hay.

Per lb., post-paid, 20c.; 100 lbs., \$4.75.

Millet—Continued**OREGON GOLDEN.**

An improved variety, medium early, growing from three to five feet high. The heads are closely condensed, though the spikes are very numerous. The seeds are contained in rough, bristly sheaths, and are round, golden yellow and beautiful in appearance.

Per lb., post-paid, 20c.; 100 lbs., \$5.00.
NEW SIBERIAN.

A new and wonderfully productive forage plant from Russia, which has given excellent results in the United States. It is extremely hardy and about two weeks earlier than the German Millet, growing about four feet in height. Its stooing properties are remarkable, as high as 41 stalks having been grown from one seed. Hay and fodder are very nutritious and much liked by all kinds of stock. Sow in April, May or June, one peck to the acre.

Per lb., post-paid, 20c.; 100 lbs., \$5.00.
COMMON.

A variety growing from three to four feet high, having rather broad blades and strong stalks. For a seed crop sow fifteen pounds per acre; for hay and pasture use thirty pounds.

Per lb., post-paid, 20c.; 100 lbs., \$4.25.

OATS—See next page.

Valuable Books on Farming and Gardening will be found in our Book List. See Index. You will never regret investing a few dollars in these books.

Speltz

A Hay and Grain Crop in One. The greatest new grain introduced in years. Try it. You can not afford to miss it.

A comparatively new grain of great value. It yields from 50 to 100 bushels of rich grain per acre, and makes four to six tons of good hay. It will grow well and produce immense crops on poor soil. Dry weather seems to have no bad effect upon it.

After the grain is threshed out the straw makes good hay, as it contains an oily substance which makes it very fattening and much relished by all kinds of stock. The grain has a hull something like barley. The great secret of Speltz is its superior stooing qualities, its strength to resist drought and the elements, and its rich food and hay value. Sow in the spring, the same as wheat, at the rate of 75 to 100 pounds to the acre. Cut when the grain is past the middle stages of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. The hull and kernel can be fed whole, rolled like barley, or ground.

Price, per lb., 20c.; 50 lbs., \$1.75; 100 lbs., \$3.00.

Sugar Cane**EARLY AMBER.**

The high value of Northern grown Sugar Cane for fodder and ensilage is becoming rapidly known. It may be made to furnish the principal food for cattle and horses from August until the following spring. When fed down young as a pasture it grows rapidly again. It also withstands severe drought with the best of this kind of plants. As a fodder and for winter feed it is one of the most economical. The Early Amber is the best variety for sugar, and it matures quickly.

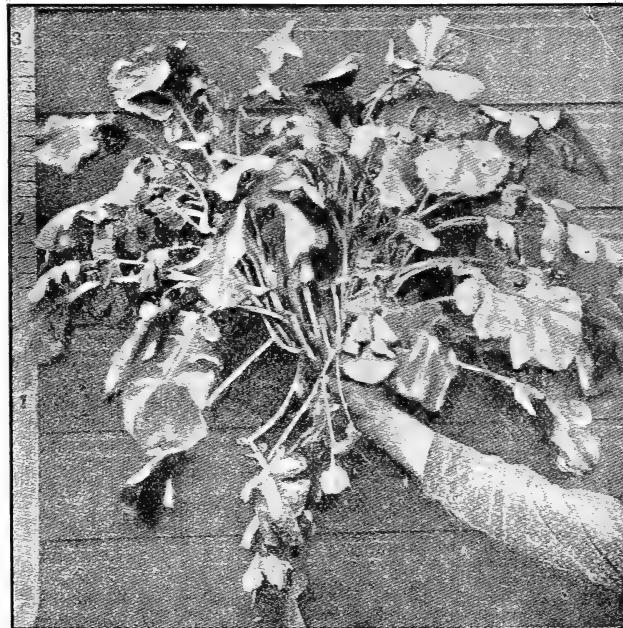
Per lb., post-paid, 25c.; 100 lbs., \$7.00.

Seed Rye

We always aim to have a choice stock of re-cleaned Seed Rye.

Per lb., post-paid, 15c.; 100 lbs., market price.

Prices on Farm and Field Seeds subject to market changes. In quantity write for special prices



ONE STALK DWARF ESSEX RAPE.

Rape, Dwarf Essex
TRUE, PURE IMPORTED SEED.

One of the best forage plants for the sheep growers of America. It is highly recommended by Professor Shaw, of the Minnesota Experiment Station, as well as many other leading authorities on stock feeding. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily, but it is particularly desirable for sheep on account of its fattening qualities. Rape will do well on almost any soil. Very valuable for ploughing under as green manure. Sheep or lambs can be turned into it within six to eight weeks after sowing. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, four pounds, in drills; or, if broadcast, eight pounds.

Per lb., post-paid, 25c.; 10 lbs., \$1.00; 100 lbs., \$8.00.

Sunflower**MAMMOTH RUSSIAN.**

The largest and most productive variety. It makes one of the very best of foods for poultry.

Per 1/4 lb., 10c.; 1 lb., post-paid, 25c.

Soja Bean

A very valuable fodder plant, either for feeding green or for the silo. It is a rich food, and is unsurpassed for forming flesh. Like clover, it improves the soil by drawing nitrogen from the air. Very productive.

Per lb., post-paid, 25c.; 100 lbs., \$9.00.



SOJA BEAN.

Seed Oats



This halftone cut, made from a photograph shows one single head of Shadeland Wonder Oats. Note the large number of oats to the head. The cut is reduced to about two-thirds.

The country is flooded with poor Seed Oats that are hardly fit to plant, and yield only 20 to 30 bushels of inferior grain per acre. It is better to sell these oats for feed and sow improved varieties that will yield two or three times as much. New Seed Oats will cost you a few dollars more at the start, but the increase in yield will make up the difference and leave you a handsome profit. Try it this season and see for yourself. Read O. A. Brown's report below, and then figure out the profit.

Shadeland Wonder

This grand new Oat, offered for the first time by us last year, has proved a great success, and brought us many flattering reports. The yield with many has broken all records. O. A. Brown, of Proebstel, Wash., writes us as follows:

PORTLAND SEED CO., Portland, Or.

Gentlemen:—Those Shadeland Wonder Oats I bought of you last spring are ahead of anything I ever tried before. They yielded at the rate of 161 bushels per acre, while other Oats planted on the same kind of ground, and at the same time, only went 24 bushels per acre. I was surprised at the yield. The heads were 16 to 18 inches in length, and on one single head I counted 182 kernels. I intend to plant 40 acres this year. Yours truly,

O. A. BROWN.

Now, friends, just take a few minutes to figure out the difference in profit, we'll give you the results. The common Oats at the market price, \$1.35 per 100 lbs., brought \$10.36 per acre, while our Shadeland Wonder, at the same price, brought \$69.55 per acre; a difference of nearly \$60.00 per acre.

Now stop and consider, don't you think you had better invest a few dollars in some of our improved, large yielding, money making, Seed Oats?

This Grand New Shadeland Wonder Oat

Is a Prize Winner and will yield 100 to 200 bushels per acre.

It is one of the earliest oats in cultivation, an extraordinary yielder and excellent stouter; the straw is stiff and stands up well; it has a large, white, heavy kernel covered with a very thin hull, making it the king of all milling oats. These oats have been awarded first premium every time exhibited. Doubtless Shadeland Wonder Oat is the greatest oat in cultivation.

Prices for 1904: The original seed stock of this oat cost \$1.00 per pound. This year we offer them at 25c. per lb., or 5 lbs. for \$1.00, post-paid. By express or freight, 50c. per peck; \$1.25 per bushel; three bushels, \$3.00. All our customers can afford to plant Shadeland Wonder this year.

Welcome Oats

The Welcome Oats have proved to be one of the heaviest and handsomest varieties of oats ever introduced. They grow five to six feet high, with strong straight straw, well supporting the enormous heads. The heads are very large and handsome, branching freely on all sides. The grain is remarkably large and handsome, very plump and full, with thin, close-fitting husks. Their uniform success in every part of the country proves their general adaptability to our varied climate, while their early maturity renders them specially valuable.

Per lb., 20c.; 3 lbs. for 50c., post-paid; per peck, 40c.; per bushel, \$1.00; 10 bushels or more at 85c. per bushel.

Well Known Oats

In addition to above named oats, we always aim to have a selected, re-cleaned stock of some or all of the following varieties:

American Banner, Shoshone, Mortgage Lifter, Lincoln, New Zealand and Gray Oats.

These oats we aim to sell at about the market price for No. 1 Clean Seed Oats. When ready to buy, write us for prices, stating quantity wanted.

Formaldehyde

A Sure Preventive for Smut in Grain.

This was proven at the Experiment Station; likewise the formula was sent to several farmers to report the result, and all claimed a success last spring.

Formaldehyde will be of great benefit to the farmer. What is it? Well, it is a clear chemical, resembling water, but it has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats. One reliable oat grower says:

"The way I treated my oats was as follows: I poured about 20 bushels of oats on the barn floor; then I poured one-half pound of the Formaldehyde in a five-gallon can of water and sprinkled it over the oats, turning them twice with a scoop shovel, and allowed them to remain 12 to 24 hours, then spread them out to dry."

Oats thus treated will be perfectly free from smut.

Price, per pound can, 75c. Sent by express or freight only; cannot be mailed.

If you want Seed Oats in quantity write for special prices.

Potatoes For Seed

Kindly mention second choice, in case we are out of any variety.

With no other seed is the importance of change more essential than with potatoes. By planting OUR SELECTED, WESTERN GROWN, ACCLIMATED STOCK, you are assured of EARLY MATURITY, INCREASED YIELD and VIGOROUS GROWTH.

This year our potato cellar is full of the finest stock we have ever had. Our seed potato trade is rapidly increasing. We have added a few new varieties of great merit to our list, this season, that we can honestly recommend to our customers. We have many customers, North and South, who consider our stock superior to any other.



EXTRA EARLY BOVEE.

EARLY MAINE.

EARLY SUNRISE.

Potato Eyes By Mail

These are carefully cut out with enough of the potato to keep them alive, and packed in moss in pasteboard boxes. We warrant them to arrive in good condition for growing, no matter how far away. In this way our customers can get a start of our NEW IMPROVED VARIETIES AT LITTLE EXPENSE, as we pay postage. We believe the yield is just as large from the potato eyes, cut out our way, as though the whole potato were planted. Orders booked now for later delivery. Should they reach you before the ground is ready to plant, put in moist earth and keep in cool place.

Special: 25 eyes of any five sorts for \$1.00, post-paid.

Daybreak (New Potato)

A few tubers of this new potato were brought over from Europe six years ago. They proved to have so much merit that we bought them up and now can supply our customers in limited quantities this season. We have named it "Daybreak," as we could think of no name more suitable. "Daybreak Potatoes" are the first to ripen. They are ten days earlier than the earliest. This we know is a very strong assertion to make, but we have grown this new variety in the field side by side with other early potatoes, and it has proved for the past two seasons to really be far ahead in earliness, to all other sorts we have tested. The vines are small and compact in growth, but strong and healthy, and not affected with disease of any kind. The vines die down as soon as the tubers are ripened, and do not make a second growth.

Daybreak Potatoes mature so early that the ground can be planted in other vegetables, after the potatoes are dug, thus insuring two crops on the same ground in one season. This novelty is a good cropper, and the tubers are of a good size, for so early a sort. Skin is a pale pink.

25 eyes, 25c, post-paid; tubers, per peck, 75c.; per half bushel, \$1.25; bushel, \$2.00.

Early Maine

For an extra early and heavy crop of choice potatoes, plant the Early Maine. This handsome new potato is almost round; the skin is a deep pink or rose; cooking quality cannot be beaten, and for a large and sure crop of extra early, smooth, nice sized tubers it is a record breaker. Pronounced by our potato grower to be his choice of all the early varieties. Stock limited.

25 eyes, post-paid, 25c.; Tubers, per peck, 75c.; half bushel, \$1.25; bushel, \$2.00.

Early White Prizetaker

This is a new, handsome, early, white potato, which ripens just after the Extra Early Bovee. This is, without doubt, the finest in quality of all extra early potatoes, and the earliest variety of good size. These potatoes are oblong in form, averaging 4 to 5 inches in length, with pure white smooth skin, and few eyes. is a very superior cooking potato, either boiled or baked, and of very finest flavor. It cooks up dry and floury. One advantage of this potato is that it has a white skin and is a good keeper, so that if you do not sell all your crop early, you can sell it on the market for winter potatoes, and they will bring the highest price. We especially recommend this potato to our market gardeners, or those who wish to work up a trade among private families. We advise early planting, as the crop will be larger and better.

To give you an idea of the productiveness of this grand new potato, we might add that one customer harvested 48 bushels from one-eighth of an acre. Almost 400 bushels per acre. We know of no other early potato that can be compared with this one.

Don't fail to get a start of these potatoes. Our stock is limited this year, so order early.

25 eyes, post-paid, 25c.; tubers, per peck, 75c.; half bushel, \$1.25; bushel, \$2.00.

Extra Early Bovee

Introduced as a novelty several years ago by Peter Henderson, the Bovee is one of the earliest potatoes grown. It is earlier than Early Ohio and uncommonly prolific for such an early variety. The vine is dwarf and stocky, and the tubers grow remarkably close, all bunched together in the hill, close up to the vine, sizing up to a remarkable degree more evenly than any potato we ever saw; none too large or too small. Color of potato, pink or flesh color.
25 eyes, post-paid, 25c.; Tubers, per peck, 75c.; half bushel, \$1.25; bushel, \$2.00.

POTATO PLANTERS

Buy one of our Eureka Potato Planters listed on page 74.

They make potato planting easy work.

Potatoes—Continued

Early Sunrise

Earlier than the Early Rose. Skin a very light pink. The potatoes cook very dry and mealy. One of the best and most popular extra early potato grown.
25 eyes, post-paid, 20c.; per peck, 60c.; half bushel, \$1.00; bushel, \$1.50.

Early Rose

Early Rose is a standard early potato, well and favorably known. Choice selected seed.
25 eyes, post-paid, 20c.; per peck, 50c.; half bushel, 75c.; bushel, \$1.25.

The Money Maker

A long, handsome, well-shaped white potato; eyes nearly even with the surface. The tubers are occasionally flattened, and it is not uncommon to have them eight inches and upwards in length. The eating qualities are perfect and it is a tremendous yielder. It belongs to the Burbank, White Star and Monroe class, but will outyield any of these two to one. Vine heavy and rank; drought proof. We now offer at reduced prices this wonderful money-maker potato, which after several years of careful testing has proved itself superior to all other late potatoes.

25 eyes, post-paid, 20c.; per peck, 60c.; half bushel, \$1.00; bushel, \$1.50.

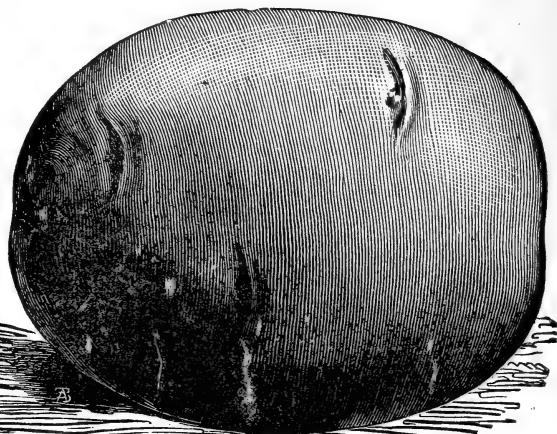
Uncle Sam

A large, handsome potato; very fine flavor and cooks up white, dry and floury. It is a strong, healthy grower; free from disease, blight, scab or rot. Will outyield other varieties two to one. One of the best potatoes for loam or sandy soil.

Uncle Sam was first placed on the market as a novelty, about five years ago, and since its introduction has made many firm friends.
25 eyes, post-paid, 20c.; per peck, 60c.; half bushel, \$1.00; bushel, \$1.50.

POTATOES

We can most always furnish any of the standard or well known varieties. If you want some kind not listed write us and we will be glad to get them for you, if they are to be had in the Portland market.



UNCLE SAM.

Seed Wheat

BLUE STEM.

A remarkable, semi-hard Spring Wheat, yielding large crops, free from rust. The millers here pay more for it than for any other sort. It is fully equal to the old Fife Wheat, and yields a very much larger crop. It is now the main crop in the Northwestern States, and the great milling kings use it for their leading grade of flour. has been the most reliable variety year after year, yielding a good crop when other kinds failed.

Per lb., post-paid, 15c.; peck, 40c.; bushel, \$1.25.

WHITE WINTER.

A beautiful large grained white winter wheat, the best kind for fall or winter sowing. Very popular in the market.

Per lb., 15c.; peck, 40c.; bushel, \$1.25.

RED CHAFF.

A very hardy productive variety, grain good size, hard and reddish in color.

Per lb., post-paid, 15c.; peck, 40c.; bushel, \$1.25. When ready to buy, write us for prices and state quantity wanted.

Wild Rice

(*Zizania Aquatica*.)

For Planting in Duck Ponds.

A valuable forage plant; also furnishes food for wild fowl, ducks, geese, etc. Seed can be sown on the borders of lakes, ponds, small streams and grows very rapidly in one to four feet of water, attracting all of these wild birds from September on. It also purifies the water and affords a refuge for the small fry from the large fish.

Per lb., post-paid, 35c.

Vetches, or Tares

(*Vicia Sativa*.)

Oregon's Greatest Forage Plant.

One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. This is a species of the pea, and is grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon Coast. It furnishes an abundance of excellent feed, either green or dried. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Weight, 70 lbs. per bushel. Sow in September, October, April or May. Per lb., post-paid, 15c.; 100 lbs., \$4.00.

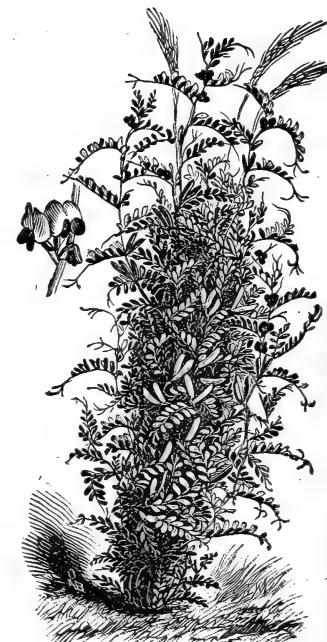
Vetches, Sand, or Winter

(*Vicia Villosa*.)

This variety thrives on poor, arid, sandy soils. It is sown either in the fall or spring, and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterward for seed. The plant is perfectly hardy and makes a very nutritious food. Per lb., post-paid, 25c.; 100 lbs., \$10.

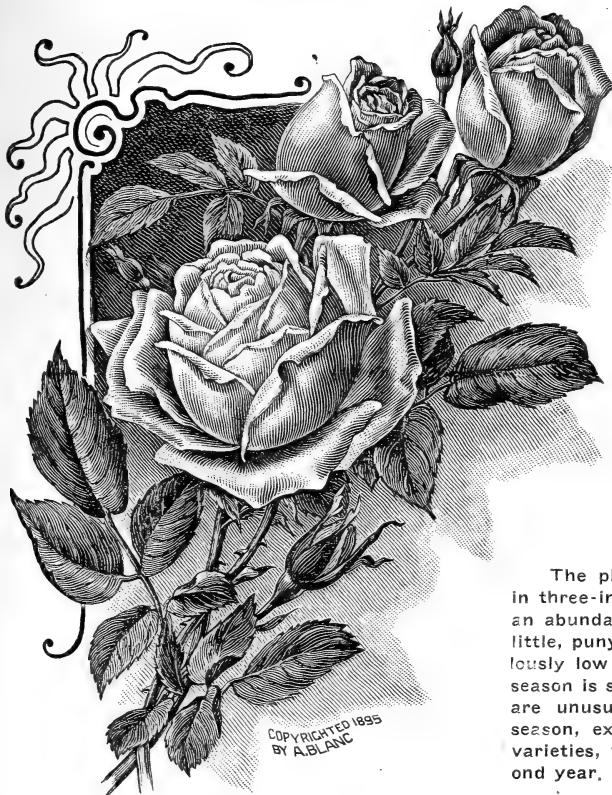
NOTE.—In ordering Vetches, be careful to state plainly which variety you want, as they are both sown in the fall or winter in Oregon.

Prices on Field Seeds are subject to market changes, but we will always send you full value, whether it be more or less, unless otherwise ordered. Special prices in quantity on request.



VETCHES.

PLANT DEPARTMENT



Our Oregon Grown Plants

Our plant trade has grown very rapidly in the past few years. Why? Because we take great pains and care in the growing, selecting, packing and shipping of all plants. Our orders are filled promptly with large, strong, well-rooted plants that will grow and produce lovely flowers the first season.

There is no danger of our plants arriving at their destination in a dried or decayed state, which often happens to plants brought from the East, after an anxious customer waits several weeks for them.

You can get plants for half what we list ours at, but please remember that they will not be nearly half so large or strong.

Roses

MAILING SIZE.

The plants that we send by mail, post-paid, are grown in three-inch pots. They are healthy and vigorous and have an abundance of roots. These plants are far superior to the little, puny plants raised in hot-houses and offered at ridiculously low prices by dealers in the East. Our stock for this season is selected with greater care than ever, and our plants are unusually fine. These roses will all bloom the first season, except some of the Climbers and Hybrid Perpetual varieties, which generally do not bloom much until the second year.

Our Two-Year-Old "Dormant" Bushes

These Roses have all been grown in the open ground, and are large, well-branched bushes, 18 to 24 inches in height, according to variety, and will soon produce flowers. **THEY ARE TOO LARGE TO SEND BY MAIL, AND ARE SENT BY EXPRESS AT BUYER'S EXPENSE.** Order any time from December to May. For Complete List in alphabetical order, see page 61.

PLANTS BY MAIL.

We send all Plants securely packed, post-paid, by mail, without extra charge, except where stated to the contrary.

1904 Set of Grand New Roses

One Size Only; Price, 20c. Each; Set of Seven Sorts, \$1.20.

ALLIANCE FRANCO-RUSSIA.

Flowers bright yellow, shading to salmon at the center; has a strong upright stem and long bud; vigorous and hardy, and a free and continuous bloomer.

BESSIE BROWN.

Color pure white, sometimes faintly flushed pink; petals enormous and of shell shape; it is marvelous that such large flowers can be so freely produced.

The Quality of Our Roses Bring such Reports as Follows:

Portland Seed Co.

The roses and plants I sent for, just received. I must say they are the finest and came in the best condition of any I ever received, and I get plants from all over the States. I can't tell you how pleased I am with them.

MRS. F. H. KANE,
Pocatello, Idaho.

GLADYS HARKNESS.

Growth very erect and vigorous; profuse in bloom, flowers large, formed like a fine Hybrid Perpetual. Color deep salmon pink.

LADY CLANMORRIS.

Blooms very large and of good form; creamy white, with delicate salmon center, edge of the petals margined pink.

LADY MARY CORRY.

Growth vigorous and of erect branching habit; blooms of good size, freely produced and perfectly formed; color deep golden yellow, distinct and fine.

LADY BATTERSEA.

This variety has long, oval buds, sharply pointed, very striking in form. The color is a bright, cherry crimson; an unusually showy variety. The only red rose approaching Nipheta in form.

FRANCIS E. WILLARD.

A magnificent new white variety, pure in color, full and perfect in form. It is a strong, vigorous grower, making large bushes in a short time. The buds and flowers are of the very largest size and deliciously fragrant.

Rose Catalog Containing Complete List of Our Most Popular Two-Year-Old Rose Bushes. Can be had on Request.

Roses—Continued**Sunrise Set of New Roses**

Price, 20c. Each; Set of Five, 75c.; Two-year-old Plants, 50c. Each.

SUNRISE.

A beautiful new English variety of a high order of merit. Buds a beautiful mingling of scarlet and yellow, changing as the flower opens to orange and copper color. Flowers of large size, double, and tea-scented. A strictly "fancy" variety.

WINNIE DAVIS.

A fine new American pedigree rose. Color, rich apricot pink, shaded to flesh at base of petals. Beautifully formed buds and flowers. Vigorous and robust habit; handsome, leathery foliage, on fine stout stems.

HELEN GOULD.

An elegant new variety of the popular Hybrid Tea class. Flowers very large and full, produced in wonderful profusion. Color, bright, glowing carmine of a most beautiful shade.

American Beauty Collection of Choice New Roses

Price, Post-paid, 15c.; Set of Twelve Sorts, \$1.50; Two-year-old Plants, 40c. each.

AMERICAN BEAUTY.

One of the largest, sweetest and best of all hardy roses. It is a quick grower, constant bloomer, making magnificent buds, and large, bold flowers; color, rich rosy crimson, shaded and veined in the most charming manner.

BELLE SIEBRECHT.

A true, solid pink of the richest shade; a rare color. The flowers are sweetly perfumed and large, beautifully formed, of long, tapering shape, with high center, and when half blown the petals reflex in a graceful manner.

COMTESSE DE FRIGNEUSE.

In color charming; in freedom of bloom second to none. The color is a deep, golden yellow, with a softer shade inside of petals; ranks next to the Marechal Neil as a producer of very large yellow flowers.



MAMAN COCHET.

LIBERTY.

Color, rich, fiery ruby, shaded deep crimson. Fragrance exquisite. Without doubt the finest ever-blooming crimson rose in existence.

IVORY.

A pure white Golden Gate, a sport from that variety. Its extraordinary freedom, large size, heavy canes and pure color, all tend to make it a valuable variety.

Portland Seed Co.

My rose order just received, and I am very much pleased with them. They are the nicest plants I ever got from anyone. L. S. OTTIS,
Rex, Oregon.

KAI SERIN AUGUSTA VICTORIA.

Color, pure white. We have no hesitancy in saying that this rose is unequalled by any other variety of its color. A grand garden rose on account of its vigorous growth and hardiness.

MADAME CAROLINE TESTOUT.

A grand new rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom.

MAMAN COCHET.

This is one of the most beautiful new Tea Roses that has been introduced in years. The color is a deep, rosy pink, the inner side of petals silvery rose; makes charming bunches of long-stemmed flowers when cut.

MAURICE ROUVIER.

Flowers of immense size and quite double and of splendid form; color soft, tender rose, shaded and variegated with red. One of the finest roses in existence; should be in every collection.

MEDIA.

Flowers bright lemon, with canary center; of immense size and very double. One of the most promising yellow roses, and altogether a splendid sort, worthy of extensive cultivation.

SOUVENIR PRESIDENT CARNOT.

A strong, clean, healthy grower, with handsome, bronze-green foliage, and large, elegantly-shaped buds. The flower is of large size, with heavy, thick, shell-like petals; buds long and pointed; color delicate rosy flesh, shaded a trifle deeper at the center.

SUNSET.

This grand rose is a favorite wherever known. The color is a rich, golden amber, or old gold, elegantly shaded, and buds are extra large, full, finely formed and deliciously perfumed.

VIRGINIA R. COXE.

Color fiery crimson, with a dark velvety sheen, very fragrant. The freest blooming rose in existence. The mass of color produced is wonderful, and the handsome foliage adds materially to its appearance.

WHITE MAMAN COCHET.

The name describes this new rose—pure white, grand substance, immense size, exquisitely fragrant and a free bloomer. Buds long and pointed, keeping a long time when cut.

Portland Seed Co.

I will write you to let you know that I received the plants, which are in every respect perfect. Thanking you for filling my order so satisfactorily, I am, MRS. A. A. WALKER,
Gaston, Oregon.

Portland Seed Co.

My plant and tree order came in fine condition. They were packed very nicely, and I am much pleased with them. MRS. L. W. REED,
Gibson, Oregon.

May 5, 1903.

April 29, 1903.

Roses—Continued**Bridesmaid Collection of Ever-Blooming Roses**

Price, Post-pald, 10c Each; Set of Fifteen Sorts, \$1.25; Two-year-old Plants, 35c. Each.

BRIDESMAID.

A fine, clear, dark pink, the counterpart of Catherine Mermet in size and shape of flowers and habit of growth, but much deeper in color and vastly more beautiful.

BON SILENE.

The buds are very handsome and produced in great profusion. Color, dark, rosy carmine. A general favorite.

DUCHESS DE BRA-BANT.

Color, a soft, rosy flesh, changing to deep rose, shaded amber and salmon; delightful tea scent; beautiful buds and flowers. Arose having every desirable quality.

LA FRANCE.

Perhaps no rose is better known or more highly valued than La France. Both flowers and buds are of grand size. Color, a silvery rose, changing to pink. A general favorite, and the sweetest of all roses.

MADAME FRANCISCA KRUGER.

The striking color of this handsome rose places it at the front as a bud-producer in the open ground. It is closely allied to Catherine Mermet in everything save color, which is deeply shaded coppery yellow. One of the finest roses in existence.

MADAME LAMBARD.

Extra large, full flowers; very double and sweet; color, a beautiful shade of rosy bronze, passing to salmon and fawn, shaded with carmine; an elegant rose.

MADAME JOSEPH SCHWARTZ.

Extra large globular flowers, very full and deliciously sweet; color pure white, elegantly tinged and shaded with pale yellow and rosy blush; an exceedingly beautiful rose, and a constant and profuse bloomer.

MARIE VAN HOUTTE.

Of a fine, faultless straw-yellow color; outer petals washed and outlined with a bright, rosy carmine; occasionally the whole flower will be suffused with light pink.

METEOR.

Remarkably rich dark, velvety crimson, with no tinge of purple to mar its beauty; curving. It is a vigorous, bushy grower with healthy, bright foliage of the deepest green.

PAPA GONTIER.

Large and semi-double; a vivid cherry red color, shaded yellow, reverse of petals crimson. One of the very best and most valuable for open ground. No other red tea rose can compare with it.

PERLE DES JARDINS.

This magnificent yellow tea rose still retains its position as one of the finest and most beautiful roses of its color ever produced. The color is a clear, golden yellow, an indescribably rich and beautiful shade, and entirely distinct from any other variety.

WE PLEASE OTHERS—WE CAN PLEASE YOU.

May 3, 1903.

Portland Seed Co.

The 26 roses came O. K. Think they are strictly all right. Gladiolus bulbs are fine too. H. S. WEBBER, Cottage Grove, Oregon.

February 20, 1903.

Portland Seed Co.

The roses for which I sent arrived safely, and I am very much pleased with them. They are much the strongest and largest plants I have ever seen for the money. I did not expect them nearly so large. I will need some more later, and shall certainly order from you.

MRS. GEO. W. ARMSTRONG,
Pittsburg, Oregon.

May 7, 1903.

Portland Seed Co.

Gentlemen: Just received the roses and plants, and they came in first-class condition. They are extra nice large plants—lots nicer than I really expected.

MRS. G. E. TOWERY,
Weston, Oregon.

June 19, 1903.

Portland Seed Co.

The collection of roses are all growing nicely. You may look for my patronage in the spring, as what I have received from your house has been most satisfactory.

J. A. BURDON,
Oregon City, Oregon.



LA FRANCE.

RAINBOW.

An elegant, striped rose, bearing freely beautiful buds and flowers of large size; color, a beautiful shade of deep pink, distinctly striped and mottled with brilliant crimson, elegantly shaded and toned with rich amber.

SAFRANO.

Lovely apricot yellow flowers; very beautiful in bud state. Chaste and elegant.

THE BRIDE.

The finest white rose ever offered. The buds are very large and of exquisite form, and the full flower is very double, measuring from three and a half to four inches in diameter.

WHITE LA FRANCE.

This magnificent rose is a pure white La France, having just a breath of rose-tinted blush, clouding the depths of its broad petals; the buds and flowers are extra large, very full and finely formed; the fragrance is delicious.

Roses—Continued**Ironclad Collection Hybrid Perpetual Roses**

Price, Post-paid, 15c.; Set of Twelve, \$1.00; Two-year-old Plants, 35c. Each.

ANNA DE DIESBACH.

Fine delicate rose, shaded with salmon; very large and exceedingly fragrant. A vigorous grower and profuse bloomer.

BARON DE BONSTETTIN.

Splendid, large flowers, very double and full; color rich dark red, passing to deep, velvety maroon.

CAPTAIN CHRISTY.

Color, a lovely shade of pale peach, deepening at the center to a rosy crimson; flowers very large, sweet and exquisitely beautiful.

COQUETTE DES ALPS.

A lovely, pure white rose; large, full, finely formed flowers, borne in great profusion; a very desirable variety.

ULRICH BRUNNER.

This is really a magnificent rose; extra large, bold flowers, full and globular, petals large and of a good substance; color, rich, glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer; one of the best for forcing.

GLOIRE LYONAISE.

Color, chamoise yellow, deepest at the center, passing to creamy white; large, full, sweet, and very distinct.

Skylark Collection of Six Finest New Climbing Roses

Price, 20c. Each; Six Sorts, \$1.00; Two-year-old Plants, 40c. Each.

CLIMBING LA FRANCE.

Identical with the well-known La France, except that it has a vigorous climbing habit. A rampant climber, flowering continuously all the season. One of the finest climbing roses.

CLIMBING METEOR.

A strong, free growing climbing rose that, under favorable conditions, will make shoots twelve to fifteen feet in a single season; very free flowering, producing all through the growing season its rich, dark velvety crimson flowers, perfectly double, and in size and finish equal to the best hybrid perpetuums.

CLIMBING KAISERIN.

(Mrs. Robert Peary.) Flowers fine ivory white, of heavy texture and largest size. A grand addition to our list of climbing roses.

Columbia Set, Six Grand Ever-Blooming Climbing Roses

Price, Post-paid, 15c. Each; Set of Six Sorts, 60c.; Two-year-old Plants, 35c. Each.

CLIMBING SAFRANO.

A beautiful pillar rose, being a strong climber. Color, orange yellow or deep saffron; good size, full and sweet.

EMPEROR OF CHINA.

A true perpetual-blooming climbing rose, flowering continually from May until late in the fall. Of rapid growth, bearing handsome, semi-double pink flowers.

LA MARQUE.

Flowers of good size, borne in large clusters, which are the distinctive features of the rose. Established plants bear thousands of blossoms; color, pure white. One of the best-known varieties.

MARSHALL P. WILDER.

An excellent rose; very full and fragrant; color, rich, ruby red, changing to lovely scarlet maroon; very beautiful.

MAGNA CHARTA.

Pink, suffused with carmine; full, globular flowers; very large and double; one of the very finest.

MRS. JOHN LAING.

Very free flowering, commencing to bloom early in the season and continuing to bloom profusely until late autumn; color, a soft, delicate pink with a satiny tinge.

PAUL NEYRON.

Deep, shining rose, double and handsomely formed; blooms freely and is unusually strong and vigorous; the largest variety in existence and one of the most desirable for the garden.

PRINCE CAMILLE DE ROHAN.

Very dark, rich, velvety crimson, passing to intense maroon, shaded black; one of the darkest roses, and very handsome.

GENERAL JACQUEMINOT.

Bright, shining crimson, very rich and velvety; exceedingly brilliant and handsome; makes magnificent buds, and is highly esteemed as one of the best and most desirable for open ground.

CLIMBING BRIDESMAID.

A rampant climber, making a growth of ten to fifteen feet in a single season, and producing such quantities of fine, large, dark pink flowers as to simply smother the plant. No finer climbing rose is to be had than this.

CLIMBING WOOTTON.

A climbing variety of this fine red rose that is bound to be very popular. It is a very strong, rapid grower, throwing long, thick canes and bearing large clusters of true Woottons.

CLIMBING PERLE DES JARDINS.

Same as the grand old Perle des Jardins and equally good in every way, but of vigorous climbing habit; flowers, golden yellow, of immense size.

MARECHAL NEIL.

A magnificent deep golden yellow variety; so famous as to need no description. Grown the world over for its immense yellow flowers. The finest rose of its color in existence.

REINE MARIE HENRIETTE.

A strong, vigorous grower; flowers large, full and of fine form; color, glowing crimson, elegantly shaded. One of the best climbers.

WILLIAM A. RICHARDSON.

Color, rich coppery yellow, flushed with carmine. A very beautiful variety, having few equals.

Roses—Continued

The Four Ramblers

Price, Post-paid, 10c. Each; Set of Four for 35c.;
Two-year-old Plants, 35c. Each.

CRIMSON RAMBLER.

A charming hardy pillar rose. The flowers grow in great pyramidal panicles, each carrying thirty to forty blooms; the flowers are one to one and a half inches in diameter, and remain in perfect condition on the plants for a long time. The color is a bright, vivid crimson, showing none of the purplish tint so commonly seen in crimson roses. A very vigorous grower and makes a fine show. The most popular of the ramblers.

YELLOW RAMBLER.

A new, hardy yellow climbing rose, blooming after the same manner as Crimson Rambler, in large clusters.

WHITE RAMBLER.

In habit of growth, foliage, manner of blooming, form of flowers and hardiness it is said to be identical with Crimson Rambler, except that the flowers are pure snow-white and sweetly scented.

PINK RAMBLER.

Same as above, except the color of the flowers is pure, shiny rose, the partially open buds being bright, light carmine, thus producing a strong and pleasing contrast.



CRIMSON RAMBLER (One Cluster).

Lewis and Clark Collection of Two-Year Old Roses

Everybody is going to plant Roses this year. You must do your share toward beautifying the country for the great Lewis and Clark Exposition, to be held in Portland in 1905.

The following is a list of our large Field-grown Two-year-old Bushes, which can be shipped any time between October 15th and May 1st. These varieties are recommended for general planting. They are the varieties that do well here and produce an abundance of choice, fragrant and handsome roses:

- * American Beauty, H. P.
- * Baroness Rothschild, H. P.
- Black Prince, H. P.
- * Bride, T.
- * Bridesmaid, T.
- * Caroline Testout, H. T.
- Catherine Mermet, T.
- Captain Christy, H. T.
- Duchess de Brabant, T.
- * General Jack, H. P.
- Golden Gate, T.
- * Helen Gould, T. (Price, 50c.)
- Gruss au Teplitz, H. T.
- * Kaiserin Augusta Victoria, H. T.
- * La France, H. T.
- * Liberty, H. T. (Price, 50c.)
- * Mrs. John Laing, H. P.
- Meteor, H. T.
- * Marie Van Houtte, T.
- * Maman Cochet, T.
- Magna Charta, H. P.
- Nephotos, T.
- * Paul Neyron, H. P.
- * Papa Gontier, T.
- * Prince Camille, H. P.

For descriptions see preceding pages.

(*) The varieties marked with a * should be in every collection; they are the most popular.

ABBREVIATIONS.

Following the name of each sort will be found the abbreviation, denoting the class to which the variety belongs—H. P., Hybrid Perpetual; T., Tea; H. T., Hybrid Tea; for full information see our Rose Catalog.

PRICES.

Except where otherwise stated; 35c. each; six for \$1.75; twelve for \$3.00; extra choice, large, well-shaped plants, 50c. each, six for \$2.50, \$4.00 dozen.

These bushes are good, well-rooted plants, one and a half to three feet high, and must be sent by express or freight at buyer's expense.

Rose Catalog You will find description of most of the above varieties on the preceding pages, but our complete Rose Catalog has them all. Free on request.

Ever-blooming Carnations

For its beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation. Our Carnation Plants are large and strong and give fine satisfaction.

Empress Collection of New Carnations

Price, 15c. Each; Four for 50c.; Set of Twelve Fine Varieties, \$1.25.

EMPEROR. Magnificent, bright, rich crimson; large, perfectly double flowers, deeply fringed and fragrant; stem, 2½ to 3 feet, and self-supporting. The largest and richest of its color yet introduced.

ETHEL CROCKER. The handsomest of all pink Carnations, perfect in shape, extra large, petals deeply fringed and remarkably high close perfume.

FLORA HILL. The grandest white and the most prolific bloomer of the Carnation family that has been raised up to this time.

G. H. CRANE. A bright, deep scarlet; a most perfect color, soft yet brilliant; the flower is of the largest size and perfectly double, nicely fringed; sweet.

GOLDEN BEAUTY. Deep golden yellow, splashed and striped with red; a very rich combination of colors and a novelty of much merit.

LORNA. Color pearly white, very large, with heavy glistening petals, delicately fringed; very fragrant. A compact, vigorous grower and free and early bloomer.

LESLIE PAUL. Deep carmine rose color; extra-large, of grand shape, vigorous in growth, habit, stem and calyx of flower perfect.

LIBERTY. A great Carnation; dark pink shading to red—a brilliant color; flower large and on long stems; blooms with wonderful freedom.

LILY DEAN. Probably the most beautiful Carnation yet introduced. Flowers are a pure satiny white, and marked and shaded with rosy pink.

MRS. GEORGE BRADT. Color clear, white ground delicately and very evenly marked with bright scarlet giving it a very pleasing and effective finish.

MARQUISE. Color soft, pure rose. It is a very healthy, free-blooming and taking color.

MORNING GLORY. A strong, free-growing variety, with perfect calyx and extra strong stem; color a beautiful shade of flesh pink.

Profusion Collection of Fine Carnations

Price, 10c. Each; Six for 50c.; Set of Fifteen Varieties, \$1.25, Post-paid.

AMAZINDA. A very large, bold, handsome flower, pure white ground, with very delicate margin and penciling of clear pink, making it exceedingly beautiful and attractive.

DAYBREAK. The favorite Carnation, because of its rare and lovely color; a very pure bright shade of flesh pink in a large, full-fringed flower of rich fragrance and perfect form.

FIREFLY. Rich scarlet; flowers large and deeply fringed; an early and continuous bloomer.

EVALINA. Fine white; large size; very fragrant, and an early and profuse bloomer.

GENERAL MACEO. Brilliant dark crimson, extra large, petals deeply fringed, full, freely produced on strong stems; very vigorous in growth, of excellent habit.

JUBILEE. Brilliant scarlet, showing no tendency to fade; stems long and firm, holding the flowers upright. A vigorous, healthy grower, producing quantities of large-sized blooms.

MRS. JAMES DEAN. Flowers very large, center round and full; color a delicate flesh pink, with a very strong clove fragrance.

MISS FRANCIS JOOST. Color soft, pure rose, so much admired by cut-flower purchasers; flowers large and well formed.

PSYCHE. A splendid free-flowering fancy Carnation, pure white, flaked scarlet.

PORTIA. Intense bright scarlet; vigorous constitution; very free flowering; one of the best sorts in cultivation.

STORM KING. A magnificent white Carnation; very large, full, symmetrical, snow-white flowers, deeply fringed and sweetly scented.

SWEET BRIAR. A lovely variety, with fine flowers of the same fresh, delightful shade of pink as seen in the Sweetbriar Rose; the fragrance is delightful.

TIDAL WAVE. A very attractive shade of carmine not heretofore seen in the Carnation family; flowers extremely double, and of the most perfect form.

WILLIAM SCOTT. The freest blooming of all pink Carnations; every shoot of the strong, bushy plant bears its long, stout stem of fine sweet flowers; color bright, delicate, rosy pink.

YELLOW JACKET. Deep golden yellow, splashed and striped with red; a very rich combination of colors and a novelty of much merit.



CARNATION.

April 8, 1903.

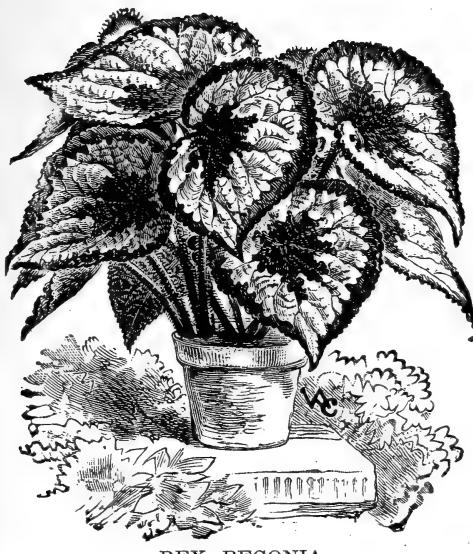
Portland Seed Co.

I received the plants today, in good condition. Many thanks for the extra ones.

C. LUNDERS,
Dublin, Idaho.

Flowering Begonias

Price, Post-paid, 10c. Each; Set of Seven Sorts, 60c.



REX BEGONIA.

BERTHA DE CHATEAUOCHER. The freest flowering Begonia we have. Makes a handsome window plant, with its glossy green leaves and bright red flowers.

CORAL GEM. Clothed all over with round, glossy green leaves, and glistening rose-pink flowers. A constant bloomer.

INCARNATA. A vigorous growing variety; large panicles of pink flowers.

METALLICA. A fine, erect begonia, with dark, rough leaves; a free bloomer. The panicles of unopened flowers are bright red, with surface like plush.

PRESIDENT CARNOT. Foliage large, flowers coral red, in large panicles.

ARGENTINA GUTTATA. Wine-colored leaves, with silvery spots; white flowers on the tips of the stems.

PURITY. The finest pure white Begonia grown. Its marvelous freedom of bloom and close, compact growth combine to make it one of the finest pot plants.

Rex Begonias

Grown for the beauty of their foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants. We offer the most distinct and handsomely marked varieties.

Price, 15c each, 4 sorts for 50c.

Large Flowering Chrysanthemums

EXHIBITION SET.

Each, 10c.; Ten Sorts, 75c.

AUTUMN GLORY. Deep reddish salmon upon opening, and gradually changing to a soft shrimp when fully finished.

COL. W. B. SMITH. Rich golden bronze color; very large and fine.

EGYPTIAN. Largest and most beautiful dark crimson scarlet yet raised.

GORGEOUS. Deep, golden yellow, of the richest hue, of immense size.

LADY PLAYFAIR. A beautiful light shade of pink.

LADY HANHAM. Cerise pink, shading to gold.

MRS. HENRY ROBINSON. Immense, globe-shaped, pure white flowers; one of the grandest sorts for exhibition.

MAJOR BONNAFFON. Soft, clear yellow, full in the center. Perfect form and finish.

PRESIDENT W. R. SMITH. Flowers heavy in substance and of beautiful texture; color, flesh pink.

SILVER WEDDING. A large, pure white reflexed flower. Very broad petals, some being nearly one inch in width.

Portland Seed Co.

March 20, 1903.

The Chrysanthemums arrived in good condition, a few days ago, and are looking well. Thanks for prompt attention and extra plants.

MRS. R. GROSS, Eureka, Cal.

EARLY FLOWERING SET.

Each, 10c.; Ten Sorts, 75c.

GEORGE W. CHILDS. Of immense size and of the richest deep, velvety crimson.

IVORY. Snowy white, of perfect in-curving form; very large.

J. E. LAGER. Very early yellow, of good size.

JOHN SHRIMPTON. Velvety crimson; a grand Japanese reflexed variety of magnificent form.

MIDGE. Snowy white, high built, in-curving flower. A beautiful flower.

MRS. A. J. CATON. A large, in-curving Japanese; color, bright bronze, shaded red on inside of the petal.

MADAME BERGMAN. Early, white; coming into bloom the first week in October; a fine, in-curving flower.

MARION HENDERSON. A handsome yellow variety of pure tint; splendid in size and form.

ROSE OWEN. A very early and very large, pure pink variety.

SOURCE D'OR. Golden twisted flowers, tipped yellow and shaded with brown.

Geraniums

SEVEN FINEST SINGLE VARIETIES.

Price, Post-paid, 10c. Each; Set of Seven Sorts, 50c.

LEON PERRAULT. Brilliant scarlet, of the most dazzling shade; very large truss and florets; a grand bedding variety.

MADONNA. Beautiful light pink upper petals, marked with white, very pretty.

MRS. E. G. HILL. Color, clear salmon, with a white center; one of the finest and most distinctive varieties.

MRS. J. M. GARR. A beautiful white variety; a fine bedder, being covered with flowers all summer.

QUEEN OLGA. Flowers bright pink, upper petals shaded to white. A fine bedding variety.

SAM SLOANE. An extra fine velvety crimson variety, carrying immense trusses in great quantity.

SOUVENIR DE MIRANDA. Creamy white, with a distinct rosy pink border; lower petals salmon rose, streaked lilac.

SEVEN FINEST DOUBLE VARIETIES.

Price, Post-paid, 10c. Each; Set of Seven Sorts, 50c.

BONNAT. Fiery pink, very large and fine.

BRUANT. A fine bedding variety; color bright vermillion red of a most pleasing shade. Trusses very large, often measuring six inches in diameter.

CONTRASTE. Flowers and trusses very large; lower petals orange and carmine, upper petals clear orange.

LA FAVORITE. Trusses very large; flowers pure snow white.

MADAME CH. DABOUCHE. Extremely free in bloom, with enormous trusses composed of large, round flowers. Color, bright rose, shading to apple blossom.

MADAME HOSTE. Flowers of enormous size; color, flesh, lined and shaded salmon. One of the finest varieties in existence.

S. A. NUTT. The best of the rich, dark crimson varieties. Trusses massive.

Lady Washington Geraniums or English Pelargoniums on next page.

English Pelargoniums

LADY WASHINGTON GERANIUMS.

Price, Post-paid, 20c. Each; Set of Six Sorts, \$1.00.

CARNIVAL. A lovely shade of brightest pink, grandly feathered with dark velvety crimson.

ELAINE. Pure white; upper petals blotched and feathered with purplish crimson. Very dwarf and free bloomer.

BRILLIANT. Large trusses of bright cerise colored flowers. Fine grower and very free flowering.

MABEL. Velvety pink. upper petals blotched blackish maroon. lower petals spotted with crimson lake.

MADAME VIBERT. Of bushy habit and free bloom. The blotches are blackish maroon. bordered with red, while the entire flower is edged with rose.

ROCK'S SEEDLING. Flowers very large, bright scarlet; upper petals blotched velvety black.

Double Fringed Petunias

Double Petunias make excellent bedding plants, as well as being suitable for pots and vases. Like the single Petunias, they bloom continuously all through the season; the flowers, however, are far more beautiful, being larger, quite double and finely fringed.

Price, Post-paid, 10c. Each; Seven Sorts, 60c.

SULTAN. An extra large, fine double fringed variety, deep violet crimson with a velvety finish.

SEA FOAM. For purity of color, form, size and vigor of growth, this variety is unsurpassed in double white Petunias.

TRIUMPH. A fine variety, fringed very double, clear white, with a beautiful shade of violet in the center.

WONDERFUL. A distinct shade of heliotrope, beautifully fringed.

CHAMPION. A unique and beautiful variety, light lavender pink with white edges, veined and marbled with brownish crimson.

EDNA. Deep violet crimson mixed with white, clear white on the edges of the petals.

FANTASY. A grand variety, deeply fringed, pure white irregularly splashed with violet.

Seven Finest Fuchsias

Fine for bedding or pot culture; free bloomers.

Price, Post-paid, 10c. Each; Seven Sorts, 60c.

SINGLE VARIETIES.

ANNIE EARLE. Tube and sepals waxy white; corolla single, clear carmine; plant of splendid and free blooming.

BLACK PRINCE. Tube and petals bright, waxy carmine, sepals large and broad, with pale green tips; large, open, pale pink corolla.

HENRY BROOKS. Flowers very large, corolla plum color, tube and sepals crimson; one of the finest varieties.

ROSALIND. Tube and sepals white, corolla magenta pink. A beautiful sort.

JUPITER. This is a grand mammoth double flowered Fuchsia; flowers of enormous size; very large, rich violet purple corolla; tube and sepals bright crimson.

STORM KING. Another general favorite; very graceful habit, and it bears double white flowers in great profusion.

WHITE GIANT. Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white; an excellent grower and profuse bloomer.

Decorative Foliage Plants For House Culture

Complete Set of Six Plants, 75c.; Post-paid, \$1.00.

ASPARAGUS—PLUMOSUS. One of the handsomest of our foliage plants. The leaves are a bright green, gracefully arched, and as finely woven as the finest silken mesh. Their lasting quality when cut is remarkable, retaining their freshness for weeks; hence it ranks as the most valuable plant we have for this purpose, surpassing Maidenhair Fern in grace, fineness of texture and richness of color. Price, 20c. each.

ASPARAGUS—SPRENGERI. (Emerald Feather.) A most desirable new species, especially useful to grow as a pot plant for decorative purposes or for planting in suspended baskets. The fronds, frequently four feet long, are of a rich shade of green and most useful for cutting, retaining their freshness for weeks after being cut. It will make an excellent house plant, as it withstands dry atmosphere, and will succeed in almost any position. Price, 15c. each.

BOSTON FERN. One of the most beautiful and useful of house plants. It is of easy culture and its sword-like fronds, in large specimens, attain a length of three to four feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Price, 20c. each.

CYPERUS—ALTERNIFOLIA. (Umbrella Plant.) A splendid house plant. Resembles a palm. Of the easiest culture.

Price, 15c. each.

CAREX—JAPONICA. A remarkable new plant with fine, spray-like foliage, drooping gracefully from the center. The leaf blades are beautifully edged with a golden band.

Price, 15c. each.

SMILAX. A very graceful climber, having delicate and dense foliage and growing freely in any situation.

Price, 10c. each.

Window Garden Collection Fine Flowering Plants

Complete Set of Seven Plants, 75c.; Post-paid, \$1.00.

PRIMROSE OBCONICA. A lovely new perpetual blooming Primrose; flowering nearly every month in the year. The flowers are borne in loose trusses; delicate rosy lilac, shaded to white. Price, 15c. each.

CHINESE PRIMROSE. One of the best of all the plants we cultivate for winter flowers, and most worthy of recommendation for winter gardening. White, pink and scarlet.

Price, 15c. each.

GERANIUM—ROSE SCENTED. Too well known to need any description.

Price, 10c. each.

CALLA LILY. An old and well-known house plant; white trumpet-shaped flowers.

Price, 15c. each.

WEEPING LANTANA. A beautiful, new, ever-blooming plant for baskets, vases, pots, or for culture outdoors. Produces its clear, lilac-pink flowers in clusters by the hundreds from early summer until severe frosts. Deliciously fragrant.

Price, 15c. each.

ABUTILON ECLIPSE. Beautiful pendulous flowers, red and yellow in color. Large green leaves marbled and blotched golden yellow.

Price, 10c. each.

FUCHSIA SPECIOSA. Grand winter blooming variety. Flowers large, tubes and sepals bluish white, corolla bright crimson.

Price, 15c. each.

Hardy Garden Plants

The plants in this collection are perfectly hardy and are valuable and most desirable in any garden, inasmuch as they die down only to the roots during the winter. They continue to grow and bloom year after year, with little or no care, increasing in beauty as they acquire age.

Price, 15c. Each; Set of Ten Sorts, \$1.25.

ANEMONE JAPONICA. There is nothing more beautiful in the entire list of hardy plants. They commence to bloom in August and increase in beauty until frost.

Alba. Purest white, with yellow center.

Rubra. Showy, rose-colored flowers, with distinct yellow center.

BLUE BELL FLOWER. Immense spikes of beautiful blue flowers.

DAISY—SNOW CREST. Large double white flowers. Blooms profusely during the spring months.

DELPHINUM. Formosum. This is certainly one of the handsomest and most satisfactory hardy garden plants. It throws up immense spikes of bright blue flowers from June to October.

BEDDING PLANTS.

During the months of April and May, we have thousands of hardy bedding plants such as: *Ageratum*, *Alyssum*, *Asters*, *Calceolaria*, *Carnations*, *Calliopsis*, *Candytuft*, *Canterbury Bells*, *Cosmos*, *Daisies*, *Geraniums*, *Poppies*, *Forget-Me-Not*, *Gillardia*, *Heliotrope*, *Hollyhocks*, *Lobelia*, *Mignonette*, *Pentstemon*, *Petunias*, *Phlox*, *Pinks*, *Pansies*, *Salvia*, *Stocks* and *Verbenas*, etc.

For descriptions of the above flowers, see Flower Seed Department.

These plants range in price from 20c. to 75c. per dozen, average price is 50c. per dozen, and will be shipped by express at the buyer's expense.

Order what you want at 50c. per dozen, and we assure you you will get your money's worth, and be satisfied.

GAILLARDIA. Grandiflora. Large, gorgeous flowers, having a red-brown center and petals marked with rings of crimson, orange, vermillion, etc.

HELIANTHUS. Multiflorus Plenus. Flowers four inches in diameter, as double as any dahlia; color, bright golden yellow.

ASTER. Nova Anglia. Immense heads of exquisite lavender colored flowers. One of the most conspicuous of all late blooming plants.

SHASTA DAISY. Pure white, Marguerite-like flowers, three inches and over in diameter. Blooms throughout the entire season.

RUDBECKIA. Golden Blow. Beautiful golden yellow flowers as large as a dahlia. The most effective hardy plant for August and September flowering now in cultivation.

FANCY LEAVED COLEUS.

The best ornamental foliage plant for summer bedding. Their varied tints of crimson, gold, bronze and green, richly blotted, veined or margined, produce a brilliancy of color unequalled.

10c. each; Rainbow Collection of 14 sorts, \$1.00

NEW GIANT PANSIES.

These lovely flowers, favorites with everyone, are too well known to need any description. The plants which we offer are raised from the finest strains of seed, and persons purchasing from us have the assurance that they are getting the best that can be had.

5c. each; 50c. per doz.; by mail, 75c. doz.

NOTE—From March until June we have Professor Steel's Pansy Plants; none finer in the world; put up one dozen in a basket, which are 75c. per basket, by express only; buyer pays express charges. Order a basket or two; you will not be disappointed.

Hardy Climbing Vines

CLEMATIS.

Well known among hardy vines, bearing large and beautiful flowers of various shades of color through the greater part of the summer and fall. The most desirable climbers for trellises, porches and pillars.

Large Flowering Varieties.

HENRYI. Fine, large, creamy white flowers; a strong grower and very hardy. 75c. to \$1.00 each.

JACKMANII. Intense violet purple, with a rich velvety appearance; distinctly veined. The most popular and finest Clematis we have. 75c. to \$1.00 each.

MAD. ED. ANDRE. A beautiful new variety; flowers red, large and abundant. 75c. to \$1.00 each.

RAMONA. Fine lavender. 75c. to \$1.00 each.

CLEMATIS PANICULATA.

A strong, rapid and vigorous grower; in late summer it produces sheets of medium sized, pure white flowers of the most pleasing fragrance. 50c. each.

HONEYSUCKLE, HALLEANA.

A vigorous climber, with pure white flowers changing to yellow. Evergreen. 30c. to 50c. each.

AMPELOPSIS.

QUINQUEFOLIA. (Virginia Creeper.) The common American Ivy, with large, luxuriant foliage, which in autumn assumes the most gorgeous and magnificent color. One of the finest vines for covering walls or verandas. 40c. to 50c. each.

VEITCHII. (Boston Ivy. Japan Ivy.) This is the handsome creeper so generally used for covering brick, stone and wooden walls. When once established the vine grows very rapidly and clings to the wall with the greatest tenacity. The leaves are of a shining, glossy green, taking on beautiful autumnal coloring. Flowers small, followed by dense clusters of deep blue berries. 40c. to 50c. each

IVY, ENGLISH.

Thick, leathery, evergreen leaves; very desirable climber for this section of the country. 30c. each.

WISTERIA.

CHINESE BLUE. Immense clusters of blue flowers in the spring. A magnificent climber, attaining a height of 50 feet. 40c. to 75c. each.

CHINESE WHITE. 40c. to 75c. each.



Ramona.

Mad. Ed. Andre.

CLEMATIS.

Henryi.

Jackmanii.

Send for Complete Catalog of Fruit, Shade and Ornamental Trees and Shrubs.

Hardy Flowering Shrubs

These Shrubs are large, two-year-old field-grown Plants, and can only be sent by express or freight, at buyer's expense.

AZALEA.

MOLLIS. The most gorgeous of all hardy shrubs. The blossoms, which vary in color from intense crimson to lemon yellow, are borne in great profusion in early spring before the leaves appear.

75c. to \$1.50 each.

BERBERRY.

THUNBERGII. A new Japanese shrub, bearing pretty yellow flowers, followed by crimson berries remaining on the branches all winter.

30c. each.

HYDRANGEA.

PANICULATA GRANDIFLORA. This is a grand shrub, easily grown, very showy and attractive, lasting in bloom for months; is perfectly hardy anywhere, and is without any question the finest hardy shrub in cultivation. It grows three or four feet high, is very bushy and compact; blooms in July, at a time when no other shrub is in flower. The flowers are pure white, afterwards changing to pink, and remain beautiful until destroyed by frost.

30c., 50c. to 75c. each.

LILAC.

VULGARIS. Immense heads of beautiful purple flowers; very sweet.

30c. to 50c. each.

VULGARIS ALBA. Beautiful, pure white flowers. 30c. to 75c. each.

SPIREA.

BUMALDA. Of dwarf, compact habit, covered during the summer and fall with a mass of bright, rose-colored flowers; fine and distinct.

30c. each.

VAN HOUTTE. Covered in June with a mass of large, white flowers, making a beautiful appearance.

40c. each.

SNOWBALL.

VIBURNUM. A very handsome ornamental shrub, covered with globular heads of pure white flowers.

40c. to 75c. each.

PLICATUM. (Japanese Snowball.) One of the best; of upright, bushy growth, entire leaves, and bearing heads of white flowers in great profusion. Much superior to the old Snowball. It blooms toward the close of May.

75c. each.

For a complete and descriptive list of Flowering Shrubs, Plants and Trees, send for our 32-page Nursery Catalog. Free on request.

Flowering Roots and Bulbs



CACTUS DAHLIA.

Dahlias

The Dahlia is one of the most popular Summer and Fall flowering bulbs and a great favorite of many. The flowers are showy and gorgeous. The latest introductions are marvels of beauty. Dahlias commence to bloom in July and continue until cut down by frost.

Cactus Dahlias

This year we offer a collection of fine handsome new Cactus Dahlias, selected in the field, when in bloom, from over one hundred. For a rich and attractive summer and fall display of flowers nothing could be finer than these.

Prices, 20c. each; Set of Five, 75c. Post-paid.

MATCHLESS. A grand variety, profuse bloomer, flowers large, having long, narrow-pointed petals; rich glistening crimson, overlaid with dark velvety maroon. The finest and darkest Cactus Dahlia.

COUNTESS OF LONSDALE. This grand new Dahlia should be in every collection. Color, rich salmon, shaded pink; petals long, narrow and pointed; a profuse bloomer, very handsome.

MRS. PEART. A true Cactus Dahlia; creamy white, entirely distinct, very handsome.

FIRE BRAND. A rich glowing scarlet, open form, petals broad and pointed. This is one of the most showy Dahlias.

EARL OF PEMBROKE. A very rich Dahlia; petals broad and pointed, very full; color magenta rose, shaded purple.

Fancy and Show Dahlias

In this class we offer eight grand new Dahlias. We believe this collection will please all our customers. Prices, 20c. Each; Complete Set of Eight, \$1.25, Post-paid.

AEGIR. An entirely distinct form; petals broad and finely formed, and arranged in a most fantastic, yet regular form. Color rich, warm cardinal scarlet, almost black.

PRIMMA DONNA. A beautiful pink, with bright, yellow center, open form, very showy and handsome.

GRAND DUKE OF ALEXIS. A large, white variety, grand in form and shape, petals broad and quilled; flowers measure five to seven inches across, and sometimes tinted with a little lavender. One of the most beautiful white show Dahlias, fine for cut flowers.

DUKE OF CLARENCE. Rich dark maroon, petals broad and somewhat curved, open form; very showy and handsome, free bloomer.

MRS. WINTERS. Of fine form, a profuse bloomer, and the best pure white in existence.

METEOR. Intense crimson, petals broad, open form; very bright and attractive.

YELLOW PRINCE. A large handsome yellow, the best of its color.

AUTUMN GLORY. Pink, shaded lavender, a profuse bloomer; petals broad and open; very handsome.

Mixed Dahlia Roots

We have grown many valuable varieties other than those mentioned on this page. Not having the space, and in many cases only a limited supply, we cannot give them individual mention, so have put all these in a mixture and offer them un-named at 15c. each; 2 for 25c.; \$1.25 per dozen, post-paid. By express at purchaser's expense, \$1.00 per dozen.

Lily of the Valley

One of the most charming spring-flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. It will thrive in any common soil, and will do well in shady situations, where few other plants will succeed.

5c. each; 50c. per dozen, post-paid.

Flowering Bulbs and Roots—Continued



GLADIOLUS.

Paeonias

Perfectly hardy, large, showy plants, bush-like in growth, producing great flowers almost rivaling the rose in color and perfection of bloom. The paeonia is well adapted for grouping with shrubbery or for separate planting on lawn or in garden.

CHINESE HERBACEOUS.

For cut flowers the Chinese Paeonias can scarcely be surpassed, and no flower surpasses them when a loose arrangement is wanted in a large vase.

Price, 30c. each; \$3.00 dozen, post-paid.

SAPHO. Fine red, full and double.

GRANDIFLORA RUBRA. Flowers large and double. Color blood red, earlier than others; generally in bloom for Decoration Day.

ROSEA SUPERBA. Handsome, rosy pink, fine for cut flowers; bush large and strong.

WHITE CLOUD. A handsome double white.

ARGUS. Fine pink, very full and double; bush rather dwarf.

FORMOSA. Light pink with yellow center, full and double.

PAEONIA MOUTAN.

(Tree Paeonia.)

This Paeonia grows about four feet high, forming a small tree-shaped shrub. The handsome, double flowers are of enormous size and rich in colors. We have ten of the finest kinds.

By express, too heavy to mail; Strong Imported Roots, 75c. each; Large Plants, 1/2 to 2 feet, \$1.50 each.

BLEEDING HEART.

Produces freely large racemes of pink and white heart-shaped flowers. Graceful foliage.

Each, 30c. post-paid.

Gladiolus

The Gladiolus is one of the most beautiful summer-flowering bulbs, and is of easiest culture. The spikes of brilliant flowers attain a height of about 2½ feet.

LEWIS AND CLARK COLLECTION. This collection contains over twenty-five distinct colors, mostly of light shades. Some are creamy white, splashed or shaded red on the lower petals; very showy and handsome.

Large Bulbs, 12½c. each; \$1.25 dozen, postpaid.

Second size, 10c. each; \$1.00 dozen, postpaid.

GLADIOLI LEMOINEI. These have odd and fantastic markings, embracing a grand range of the most brilliant and showy colors. Very fine mixed.

Large Bulbs, 10c. each; \$1.00 dozen, postpaid.

Second size, 8c. each; 75c. dozen, postpaid.

GLADIOLI CHILDSI. The flowers of this improved strain are of grand size and are borne on tall stalks. The colors are very showy. Choice mixed, including many named varieties.

Large Bulbs, 10c. each; \$1.00 dozen, postpaid.

Second size, 8c. each; 75c. dozen, postpaid.

GLADIOLI FINE MIXED. This mixture is composed of a splendid assortment and will produce a large variety of flowers at a little expense.

Large Bulbs, two for 15c.; 75c. dozen, postpaid.

Second size Bulbs, 50c. dozen, postpaid.

Japanese Lilies

These are the most fragrant, beautiful and stately of all outdoor flowers and require very little care. Plant about six inches deep.

AURATUM. One of the handsomest and probably the most popular of the Japan lilies. Its immense, ivory white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band shading its edges into white. Mammoth size bulbs, very choice.

Each, 25c.; dozen, \$2.50; postpaid.

AURATUM PICTUM. Pure white, with red and yellow band.

Each, 35c.; dozen, \$3.50; postpaid.

AURATUM RUBRO-VITTATUM. White, with crimson stripes.

Each, 50c.; dozen, \$5.00; postpaid.



LILUM AURATUM.

LONGIFLORUM. Pure white, best Easter lily. 15c. each, \$1.50 dozen, post-paid.

LILUM TIGRINUM (Splendens). Improved Single Tiger Lily. Has very large flowers of excellent form; color, orange - salmon, with dark spots.

15c. each, \$1.25 dozen, post-paid.

LILUM WASHING-TONIUM. This handsome lily is often called the "Mt. Hood Lily," as it is found in the foothills around Mt. Hood. 15c. each, \$1.50 dozen, post-paid.

SPECIOSUM ALBUM. Pure white, mammoth size.

25c. each, \$2.50 dozen, post-paid.

SPECIOSUM RUBRUM. White with dark rose spots. Mammoth size.

25c. each, \$2.50 dozen, post-paid.

Vegetable Plants and Roots

We grow large quantities of vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We have made arrangements this year so that we can supply all vegetable plants in two grades, plants direct from the seed beds, and those that have been transplanted into shallow boxes.

TRANSPLANTED PLANTS are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts.

LET US HAVE YOUR ORDERS EARLY AND WE WILL SHIP THEM LATER, OR AS REQUESTED.

Post-paid. By Express.
Per Doz. Pr 100. Pr 1000.

Cabbage.

Early or late kinds, transplanted	20c.	75c.	\$6.00
Not transplanted .....	.....	50c.	4.00
Add 25c. per 100 for Cabbage Plants by mail.			

Cauliflower.

Early Snowball, transpl't'd	30c.	\$1.25	\$8.00
Not transplanted .....	.....	1.00	7.00
Late kinds, transplanted	30c.	1.00	7.00
Late kinds, not transplanted .....	.75	6.00	
Add 25c. per 100 for Cauliflower Plants by mail.			

Celery.

Leading kinds, transplanted	25c.	75c.	\$6.00
Not transplanted .....	.....	50c.	5.00
Add 25c. per 100 for Celery Plants by mail.			

Tomatoes.

Leading kinds, transplanted	30c.	\$1.00	\$7.00
Not transplanted .....	.....	.75	6.00
Add 40c. per 100 for Tomato Plants by mail.			

MISCELLANEOUS PLANTS.

All Transplanted.

Brocoli	25c.	\$1.00	\$6.00
Brussels Sprouts	25c.	.75	6.00
Celeriac	25c.	.75	6.00
Egg Plant	30c.	1.00	7.00
Pepper	30c.	1.00	7.00
Sweet Potato Plants	30c.	1.00	7.00
Tobacco	30c.	1.00	7.00
Add 25c per 100 for above plants by mail.			
Chives. (Schnittlauch)	25c. per bunch.		
No Plants sent C. O. D. Write for quotations on large quantities.			



EARLY CABBAGE.

Roots, Etc.

Asparagus.

Varieties: Conover's Colossal, Palmetto, Columbia Mammoth White.

Post-paid: One-year-old plants—doz., 25c.; 50, 75c.; Two-year-old plants, doz., 40c.; 50c., \$1.00.

By express or freight: One-year-old plants—25, 35c.; 50, 50c.; 100, 75c. Two-year-old plants—25, 50c.; 50, 75c.; 100, \$1.00.

Hop Vines.

Post-paid: Each, 7c.; doz., 50c.

By express: Doz., 25c.; 100, \$1.50.

Horse Radish Roots.

Post-paid: Each, 5c.; doz., 40c.

By express: Doz., 25c.; 100, \$1.50.

Rhubarb Roots.

Varieties: Mammoth, Giant, Victoria or Linnaeus.

One-year-old roots—Post-paid—Each, 8c.; doz., 75c.

Express or freight: One-year-old roots—Doz., 50c.; 100, \$3.00.

Two-year-old roots—Postpaid—Each, 15c.; doz., \$1.50

Two-year-old roots—By express or freight—Doz., 85c.; 100, \$6.00.

We often have 3, 4 or 5 year old Rhubarb Roots.

If you want some extra large ones, write us.

If wanted in larger quantities write for special prices.

NOTE.—We advise our customers to order all the above roots by express or freight, if possible, as it enables us to send much larger and better rooted plants, at a less cost to the buyer.

plants, at a less cost to the buyer.

Fruit Trees and Bushes

Our large Nursery Catalog contains a complete list with full description of all Fruit, Shade and Ornamental Trees, Shrubs, Climbers, etc. We would be pleased to mail it to anyone who is thinking of purchasing a stock of trees. We simply give below a condensed price list. Order any varieties you want at following prices:

APPLES.

Each.	Per 10.	Per 100.
2-year-old	30c.	\$2.25
1-year-old, 4 to 6 feet	25c.	2.00

APRICOTS.

1-year-old, 4 to 6 feet	25c.	\$2.00
Choice 2-year-old, 30c. each.		

CERRIES.

Select, 4 to 6 feet	40c.	\$3.50
1-year-old, 4 to 6 feet	30c.	2.50

Cherry Trees are very scarce and stocks limited.

PEACHES.

2-year-old	30c.	\$2.50
1-year-old	25c.	2.00

PRUNES.

Select, 4 to 6 feet	20c.	\$1.75
Select 2-years, 4 to 6 feet, each 25c.		

PEARS.

2-year-old	35c.	\$3.00
1-year-old, 4 to 6 feet	30c.	2.50

PLUMS.

Each.	Per 10.	Per 100.
Select, 4 to 6 feet	25c.	\$2.00
Select 2-years, 4 to 6 feet, each 25c.		

QUINCE.

Choice trees, 4 to 6 feet	40c.	\$3.00
	

BLACKBERRIES.

8c.	60c.	\$5.00
6c.	50c.	\$4.00

RASPBERRIES.

7c.	85c.	\$6.00
10c.	75c.	\$6.00

BLACK CAP RASPBERRIES.

7c.	85c.	\$6.00
Choice 2-year, 15c. each.		

GRAPES.

1-year-old	15c.	\$1.25
2-year-old	20c.	1.50

Extra large and strong roots, 25c. each.		
10c.	75c.	\$6.00

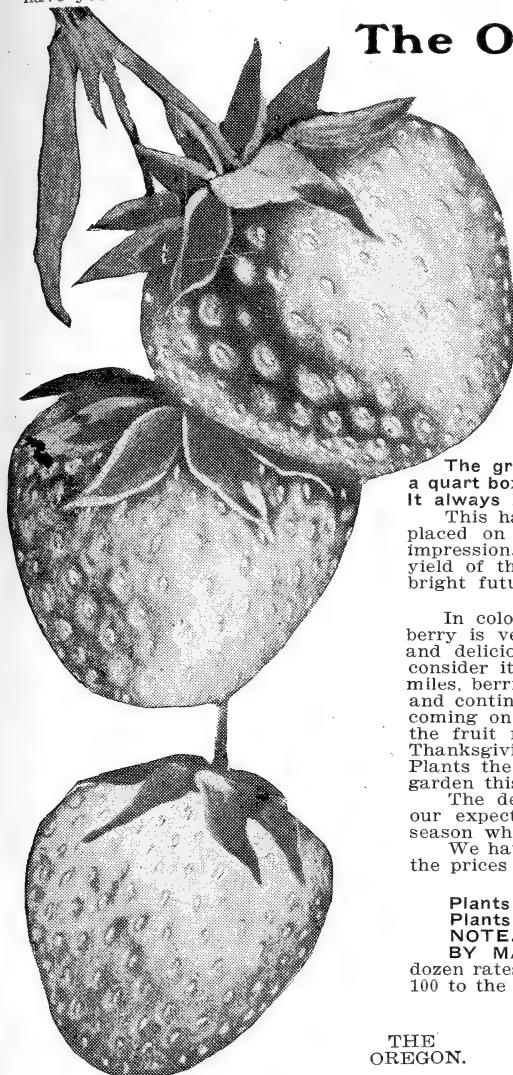
GOOSEBERRIES.

10c.	75c.	\$6.00
Choice 2-year, 15c. each.		

Strawberries

Every owner of a home should have a part of the garden in Strawberries. Nothing is so nice as to have your table berries right fresh from the vines.

The Oregon



From Photograph:
One yearling plant
in bearing in 15-
inch pot.

The greatest and grandest Strawberry ever produced; 15 berries fill a quart box; 60 berries fill a 5-lb. grape basket. You never saw its equal. It always looks bright, fresh and attractive.

This handsome new Strawberry, originated by W. B. Hufstater, and placed on the market by us last season, has made a very favorable impression. Persons who have had a chance of seeing the growth and yield of the young plants and testing the merit of the fruit, predict a bright future for the "New Oregon."

DESCRIPTION.

In color it is a rich, dark red; color extending to the center. The berry is very large, but firm and handsome. The flavor is rich, sweet and delicious. For table use and canning it cannot be equalled. We consider it one of the best shipping berries, having shipped a crate 700 miles, berries arriving in good condition. "The Oregon" ripens very early and continues in bearing until late in the season, a good second crop coming on about October. The foliage is large and thick, and protects the fruit from frost, so that berries can be gathered here as late as Thanksgiving Day. This variety is very prolific and a heavy cropper. Plants the first season often bear a quart to the plant. For the family garden this berry will certainly prove the most satisfactory.

The demand for plants last season of this new berry far exceeded our expectations; and, from reports, we expect to sell thousands this season where we only sold hundreds last.

We have a very fine lot of strong plants this season, and have reduced the prices so that everyone can get a start.

REDUCED PRICES FOR 1903-1904:

Plants by mail, post-paid—Each, 10c.; 6 for 50c.; 12 for 85c.
Plants by express—50 for \$3.00; 100 for \$5.00.

NOTE.—Last year the "New Oregon" sold at \$1.50 per dozen.
BY MAIL POST-PAID.—Strawberry plants are mailed, post-paid, at dozen rates, if desired. If ordered at 100 rates, to go by mail, add 25c. per 100 to the prices quoted. At 1000 rates, by express or freight only.

THE OREGON.

WARNING

Aside from the small lots of plants we sold last year, there are no TRUE GENUINE OREGON STRAWBERRY plants for sale, except what we are now offering. If you want the true stock be sure that they come direct from us. Beware of parties offering at less than list price.

WILSON.

The old standard for shipping; a heavy bearer of fine, moderate sized berries; sharp acid flavor and the leading sort for canning.

Plants, per dozen, 25c.; 100, 50c.; 1000, \$4.00.

CLARK'S SEEDLING.

The berry that has made Hood River famous. Best shipper; berries large, firm and of delicious flavor; vines bear large crops and is especially adapted to dry soil. Plants, per dozen, 25c.; 100, 50c.; 1000, \$4.00.

MAGOON.

Originated by Mr. Magoon, near Portland. Berry large, firm and excellent; sub-acid flavor; bears heavily and throughout the season, being a little later than the Wilson. Specially adapted to Western Oregon and Washington.

Plants, per dozen, 25c.; 100, 50c.; 1000, \$4.00.

MARSHALL.

Recommended by Corvallis Experiment Station as being the BEST all-round strawberry. This strawberry, while not very well known here, is so well liked by those who have tried it, that we have decided to list it this year. The originator says one-third of an acre produced 3000 baskets of berries last year. The berries are very large size, fourteen filling a basket. Color, very dark crimson throughout; fine flavor and fine grain, and good keeper, which commends it for garden or market purposes; blossom perfect. The plant is a vigorous, healthy grower. One local grower says in size, appearance, flavor and sweetness it is superior to the Magooon. While we have a fair supply of this sort, we anticipate such a demand for them that our stock will likely be exhausted early.

Price, dozen, 40c.; 100, 75c.; 1000, \$5.00.

PLANTS BY THE THOUSANDS

We make a specialty of growing Strawberry Plants. If wanted in quantities write us for Special Prices.

Logan Berries

A cross between the raspberry and the blackberry; the fruit is sometimes an inch and one-quarter long, dark red, as large as the largest blackberry, and produced in immense clusters; it partakes of the flavor of both the blackberry and raspberry; a mild, pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early, just after strawberries. It is excellent for the table, eaten raw or stewed, and for jelly or jam it is without an equal.

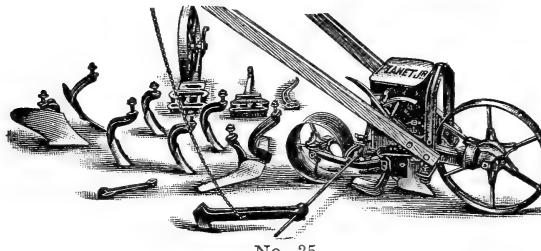
Each, 20c.; 10, \$1.50; 100, \$13.00.

"Planet Jr." Farm and Garden Tools for '04

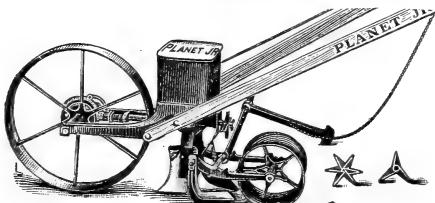
Space will not permit our showing and describing all of the "Planet Jr." tools, but we will send a fully illustrated catalogue free for the asking to any who desire it, and we can supply promptly anything ordered. "Planet Jr." goods are standard machines, the best on the market. In sending your orders to us you can rely on getting bottom prices.



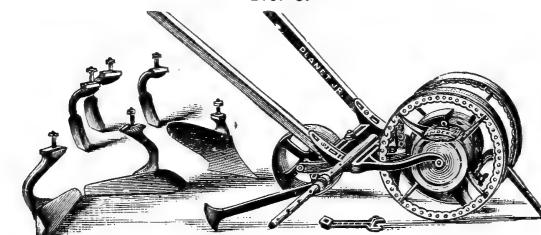
No. 4.



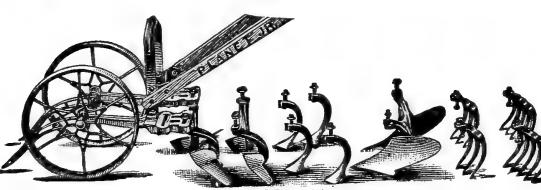
No. 25.



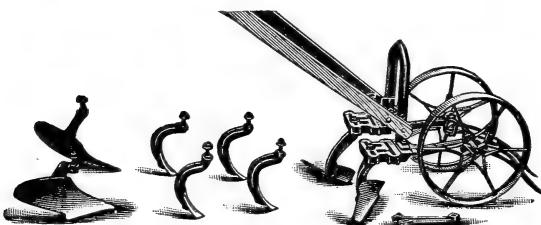
No. 3.



No. 1.



No. 11.



No. 12.

No. 4 Combined Hill and Drill Seeder and Wheel Hoe Cultivator and Plow. Price, \$11.00; Drill only, \$9.00.

This admirable tool combines in a single convenient implement a capital hill dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator and a plow. It holds two quarts, and, as a seeder, is like the No. 5, sowing in continuous rows, or dropping in hills at five different distances. It is thrown out of gear by simply raising the handle. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe, garden plow or cultivator. It is useful almost every day of the season at every stage of garden work. With this one implement the small farmer can do practically all the work in his small crops.

A set of three rakes supplied when specially ordered. Price, \$1.00 extra.

No. 25 Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow. Price, \$14.00.

It practically combines in one tool the No. 4 Drill and No. 12 Double Wheel Hoe.

As a drill it is almost identical with the Planet Jr. No. 4 Drill; will sow in drills or hills, 4, 6, 8, 12 or 24 inches apart, and has the same feed, hill dropping mechanism and automatic device for throwing out of gear and the new combined cut-off and seed index, with brass thumbscrew adjustment. It is thoroughly substantial and is accurate in sowing all kinds of garden seeds in either hills or drills.

No. 3 Hill and Drill Seeder. Price, \$11.00.

Hopper holds three quarts; 15-inch patent steel driving wheel, with broad face, which makes the drill run easily, even when full. The quantity of seed is regulated by an accurate index, conveniently placed at the top of the handle, and carefully graduated for either hill dropping or drilling. The flow of seed is started or stopped by a single movement of the fore-finger. The roller is broad and hollow-faced, leaving a wide, smooth track for the wheel hoe. It is extremely simple, and will not injure the most delicate seed.

No. 1 Combined Drill, Seeder and Wheel Hoe, Cultivator and Plow. Price, \$10.00.

This has long been the most popular combined tool made. From a drill it is changed to its other uses by removing two bolts, when hoes, etc., can be quickly attached. It is an excellent seed sower, a first-class double or single wheel hoe.

A pair of six-tooth rakes supplied when specially ordered.

Price, \$1.00 extra.

No. 2 Drill Seeder.

Very much like No. 1, except that it has no cultivating tools and holds more seed.

Price, \$8.00.

DOUBLE WHEEL HOES.

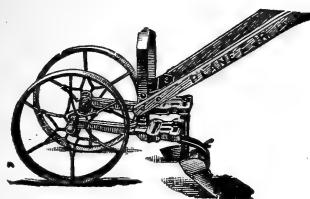
The Planet Jr. double wheel hoes are the greatest tools in the world for the gardeners. They do more work, and do it better and easier than can possibly be done in any other way. They represent the very highest perfection in every detail.

No. 11 Double Wheel Hoe, Cultivator, Rake and Plow. Price, with attachments as shown in cut, \$9.50.

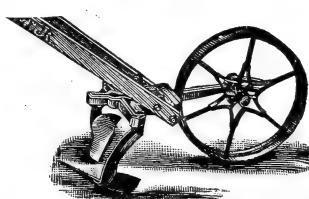
No. 12 Double Wheel Hoe, Cultivator and Plow. Price, \$7.50.

This tool is identical with No. 11 Wheel Hoe, except that it has fewer attachments, and is sold at a correspondingly lower price. The tools shown and sold with No. 12 are what gardeners mostly use and the others can be added as wanted.

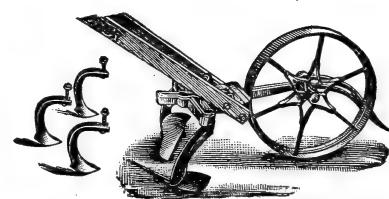
Planet Jr. Machines—Continued



No. 13.



No. 18.



No. 17½.

No. 13 Double Wheel Hoe. Price, \$5.25.

This tool is the No. 11, with 6-inch hoes only, these being the tools that are most generally useful. Any or all of the other tools shown with No. 11 may be added at any time, and are sure to fit.

No. 17½ Single Wheel Hoe and Cultivator.

Price, \$5.00.

Fire Fly Plow. Price, \$2.50.

This tool is most useful in small gardens. Chicken raisers will find it very useful in plowing up the scratching yards.

No. 18 Single Wheel Hoe. Price, \$4.00.

This tool has the same frame and handles as No. 16, but has one pair of 6-inch hoes only—the tools that are most constantly useful throughout the season. All the other tools can be added as needed.

Farmers' No. 19 Single Wheel Hoe, Cultivator and Plow. Price, \$4.25.

This new and attractive implement is especially designed for the farmers' garden work, though it offers to everyone with either field or garden a cheap and effective tool for all hand wheel hoe operations. The wheel is high and is made with a stiff steel rim and spokes. The handles may be readily changed to suit man or boy.

No. 8 Horse Hoe and Cultivator. Price, with attachments as in cut, \$9.00.

Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle.

Planet Jr. No. 9 Horse Hoe and Cultivator. Price, \$7.90.

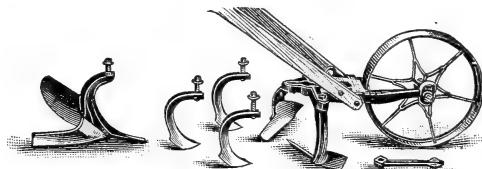
Similar to No. 8, but without lever.

Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, plain, \$6.30; with wheel, \$7.40; complete, \$9.00.

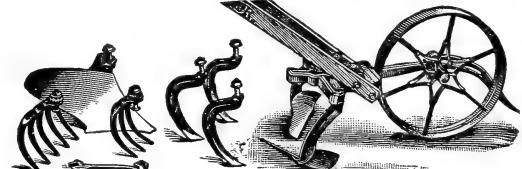
This tool has rapidly grown into favor with farmers, market gardeners and strawberry growers. It has a high frame and the chisel-shaped teeth cut an inch wide each. It may be set with teeth trailing.

The foot lever pulverizer is a capital addition for preparing ground for the seed drill or for plant setting. Hand levers regulate both width and depth while in motion.

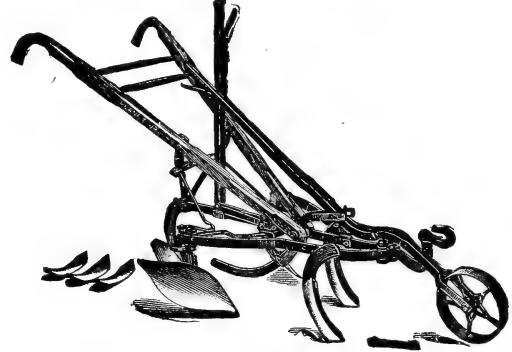
Space will not permit illustrating and describing all of the "Planet Jr." tools, but we will gladly send a fully illustrated catalog to any who desire it.



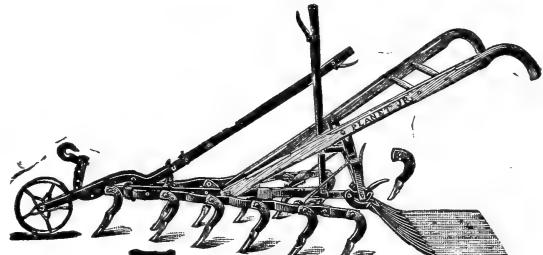
No. 17 Single Wheel Hoe, Cultivator and Plow, as in Cut. Price, \$5.50.



No. 16 Single Wheel Hoe, Cultivator, Rake and Plow. Price, \$6.35.



No. 8 Horseshoe.



Twelve-Tooth Harrow, complete.

Iron King Seed Drill

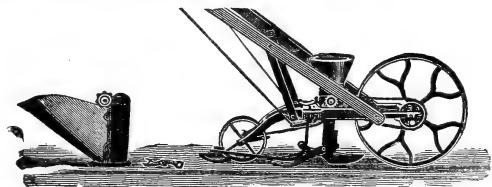
THE BEST ONION DRILL.

The Iron King Seed Drill is acknowledged by the majority of the large onion growers of Oregon and Washington to be the most practical of the drills for sowing Onion Seed.

It is a well made, durable and easy running machine, accurate and reliable, and with careful use will last a lifetime. It will save the price of the machine in sowing a few acres. If you are growing onions you cannot afford to be without one.

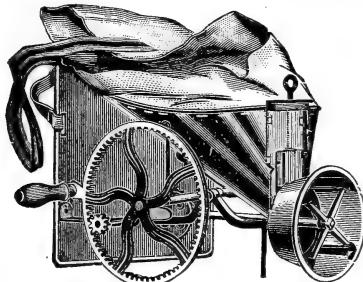
The Iron King can also be set to sow anything from turnips to peas.

Price, \$9.25.

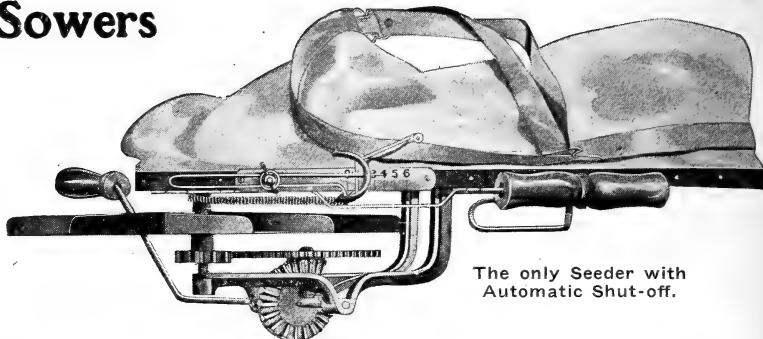


Iron King.

Broadcast Seed Sowers



CAHOON.



The only Seeder with Automatic Shut-off.

THE COLUMBIA BROADCAST SEEDER.

Every farmer should have a Broadcast Seeder. They save seed and labor.

IMPROVED CAHOON.

This machine has been on the market for years, and is probably the most popular sower. They have a force feed and do excellent work. Instructions with each machine.

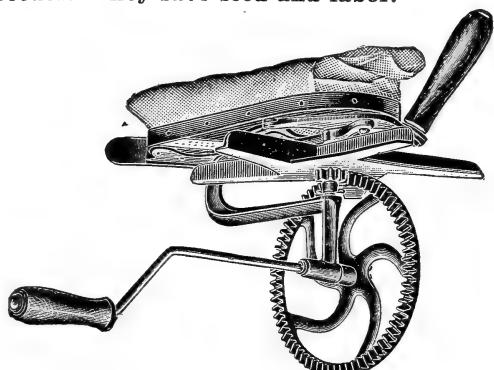
Price, \$3.50.

THE COLUMBIA.

A new and practical machine for sowing correctly all varieties of farm seeds. Perfect in distribution. Mechanically constructed. Neatest and most simple. Has automatic cut-off and regulator. The lightest running of all seed sowers. Strongest in construction. The lowest priced standard machine manufactured. Each machine packed separately. The many advantages of this seeder should appeal to every shrewd buyer.

Price, \$2.25.

THE GRANGER, well known. Price, \$3.00.



NEW PREMIER.

A strong, neat, compact seed sower for sowing any kind of seed or grain. The best low-priced hand seed sower on the market. Superior in every way to the so-called cheap sowers.

Price, \$1.50

Pruning Tools, Etc.—Florists' Supplies



Long Handle Tree Pruners.

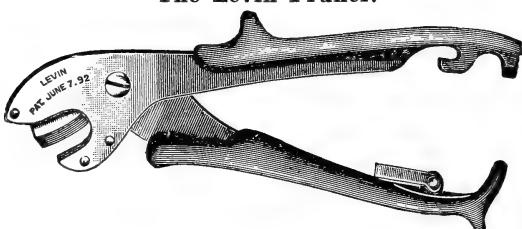
6 feet	\$0.75
8 feet	1.00
10 feet	1.10
12 feet	1.25

Cannot go by mail. Purchaser will have to pay freight or express charges.

Pruning Saws.

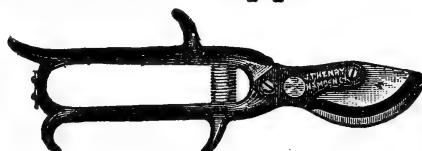
Crescent, 12 inch .....	.70c.
Crescent, 14 inch .....	.75c.
Straight Blades .....	.50c. to .75c.

The Levin Pruner.



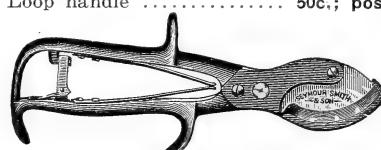
Cuts clean, does not mash the twig.

No. 23. 7-inch, cuts $\frac{1}{2}$ inch	Post-paid, 75c.
No. 24. Cuts $\frac{3}{4}$ inch	Post-paid, \$1.00
Ladies'. Nickel plated, 6-inch Shears; like No. 30	75c.; postage, 10c.



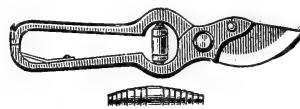
No. 0.

No. 0.	40c.; postage, 15c.
No. 00. Similar to 0, but with flat spring	45c.; postage, 15c.
No. 9. Loop handle	50c.; postage, 15c.



No. 14.

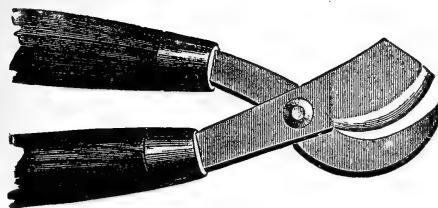
No. 14.	50c.; postage, 15c.
No. 12. Similar to 14, with steel spring	55c.; postage, 15c.



No. 30.

No. 30. 9-inch California pattern; German make; black finish, poliseal blade	75c.; postage, 15c.
No. 40. 9-inch; same pattern as 30; bright finish, polished blade, spiral steel spring; made for hard service	\$1.00; postage, 15c.
No. 4773. 9-inch Reiser pattern, full polish, with double brass springs	\$1.40; postage, 15c.

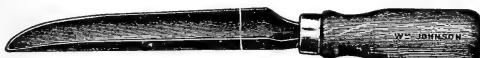
Tools—Continued

**BRANCH SHEARS.**

26 inch \$1.00
41 inch 1.25

GARDEN TROWELS.

Don't class these tools with the cheap stock offered by the department stores.



Steel Transplanting Trowel 15c.; postage, 10c.



No. 309. Blade and shank of one piece of steel. The best tool of its kind in the market. 50c.; postage, 15c.
No. 310. Good steel trowel, with malleable iron shank; firmly riveted. A good trowel for the money 10c.; postage, 10c.
No. 3100. Steel trowel, better finished than the above 25c.; postage, 10c.
No. 3090. A first-class trowel 35c.; postage, 10c.

**GRASS HOOKS.**

3 in 1. New (see cut) 50c. to 75c.
English. First class 75c.
German. No. 2, good grade 35c.
German. No. 1, best cheap sickle. 30c.
Each. Full line of other makes.

GRASS SHEARS.

Fine for trimming borders and edges. Good make, 6-inch blade. 60c. each.

Flower Shears.

Nickel plated, cuts and holds the flower.

80c.; postage, 10c.

Grape Shears.

Like the above

80c.; postage, 10c.

PRUNING KNIVES.

We have a good assortment of these, ranging in price from 50c. to \$1.50 post-paid. If out-of-town customers will tell us about what they want we can give them good value for money sent.

BUDGING KNIVES.

M. & G. Budding 25c.
M. & G. Grafting 25c. and 30c.
I X L Budding, Ivory Opener \$1.00
Budding, Gutta Percha Opener 60c.

GRAFTING WAX.

1/4 lb., 10c.; 1/2 lb., 25c.; lb., 35c.; postage, 18c. per lb.

RAFFIA.

For tying plants and buds. Lb., 25c.; by mail, 50c. lb.

**BOOK ON BASKET MAKING.**

Instructions on basket making and other raffia work are now published in book form. "Basket Making—How to Do It," by T. Vernette Morse, containing over 100 working designs, is considered the best authority on the subject. This book is well worth 25c., the price we ask, as a thorough knowledge of the art can be obtained from its contents.

The popularity of raffia weaving is increasing daily, and the demands becoming greater than ever before.

Send for free pamphlet, "Notes on Raffia." Also samples of Raffia, all colors.

Raffia and Reeds

For Basket Making

Of late, after the general fashion of the time, Raffia Weaving has become the fad popular, but, unlike some of its predecessors in the fad world, it promises to be an art, useful as well as ornamental. Baskets, Jewel Boxes, Shopping Bags, Mats, Cushions, Slippers and Hats are but a part of the many useful articles woven. The value of these articles is set according to the stitch and shape, also by the amount and quality of the material used. Prices of Baskets range from 50c. to \$10.00; the finer the workmanship the greater the value.

REEDS.—In the weaving of Baskets what is known as Raffia Reed or Rattan is used as a frame or foundation, making them firmer and heavier.

PRICES ON RAFFIA AND REEDS.

RAFFIA.—We formerly had Raffia in the natural color only, but now we have it in almost any shade, the popular ones being Red, Green, Yellow, Orange, Brown, Black, Blue and Purple.

Prices: Natural Color—1/4-lb. packages, 10c.; post-paid, 15c.; per lb., 25c.; post-paid, 50c. Colored Raffia—Per package, 10c.; post-paid, 15c.; per lb., 75c.; post-paid, \$1.00.

REEDS.—We have these in six sizes, put up in 10c., 15c. and 20c. packages; 5c. extra for postage. By the pound—No. 1, \$1.60; No. 2, \$1.40; No. 3, \$1.30; No. 4, \$1.15; No. 5, \$1.00; No. 6, 90c. If wanted by mail add 25c. per lb. extra for postage.

Florist Supplies

MASTICA.

For glazing hot house windows. Put up in one gallon cans, ready for use.

Price, \$1.50 per gal.

MASTICA MACHINE.

For applying Mastica. Saves time, labor and expense in glazing hot house windows.

Price, \$1.35.

GLAZING POINTS.

Peerless (The Improved Van Reyper). By far the best point made.

Price, per 1000, 75c.; send for sample.

CHENILE.

Purple, light blue, red, white, yellow. Per skein, 35c.

FLORIST LETTERS.

Block, 2c.; Script, 4c.

WIRE HANGING BASKETS.

12-inch, 25c.; 16-inch, 60c.

TIN FOIL, FLORIST.

1 lb., 15c.; 10 lbs., \$1.25.

TIN FOIL, PURE.

1 lb., 65c.

OREGON MOSS.

We have this gathered, dried and put up in bales for florists' and nurserymen's use.

Per lb., 5c.; 100 lbs., \$3.00.

Write for price by ton or carload.

PLANT STAKES.

Round Stakes, painted green.

3 ft., 75c. doz.; 3½ ft., 80c.; 4 ft., 85c.; 5 ft., \$1.35; 6 ft., \$2.00.

BAMBOO STAKES.

4 ft., 20c. doz.; 5 ft., 25c.; 6 ft., 30c.

TREE LABELS.

Painted	\$0.70 per M.
Painted, wired	.95 per M.
Unpainted	.60 per M.
Unpainted, wired	.75 per M.
Printed	.85 per M.
Copper wired	1.25 per M.
Brass wired	1.25 per M.

POT LABELS.

Painted	\$0.85 per M.
Unpainted	.65 per M.

Each. Doz.

	Pots.	Saucers.
	Each.	Doz.
2 inch	\$0.03	\$0.20
3 inch	.04	.35
4 inch	.05	.50
5 inch	.07	.70
6 inch	.10	1.00
7 inch	.12	1.25
8 inch	.15	1.60
9 inch	.25	2.50
10 inch	.30	3.20
12 inch	.50	5.00
15 inch	.90	9.60

Post-Paid.

Excelsior Weeders	.....	20c.
Noyes Hand	.....	30c.
Hazeltine's	.....	30c.
Combination	.....	30c.

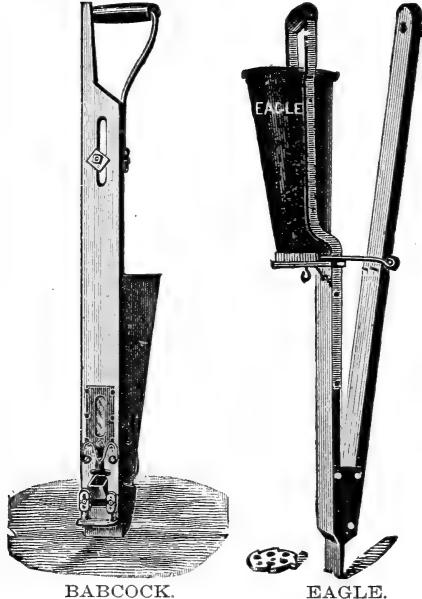
FLOWER POTS.



Excelsior.



BY MAIL
ON EARTH. PREPAID 25c



BABCOCK.

EAGLE.

Hand Corn Planters

EAGLE ROTARY.

Decidedly the best hand corn planter made, and a very desirable implement for those who have a quantity of corn to plant. It puts the corn exactly where you want it and at a proper depth. It is easily worked and a most satisfactory tool in every way.

Price, \$1.50.

BABCOCK AUTOMATIC.

Considered by some to be an improvement on the above type of planter, as it requires but one hand to operate it. The feed is perfect, and with it corn can be planted almost as fast as a man can walk.

Price, \$1.25.

Eureka Potato Planter

With this planter one man can plant several times as much ground without getting a lame back as can be done by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking. Price, \$1.50.



EUREKA.

MANN'S CHAMPION CORN SHELLER.

If you have any popcorn or corn to shell, this is the machine you want. Ball-bearing and perfect in every part.

Price, \$3.00

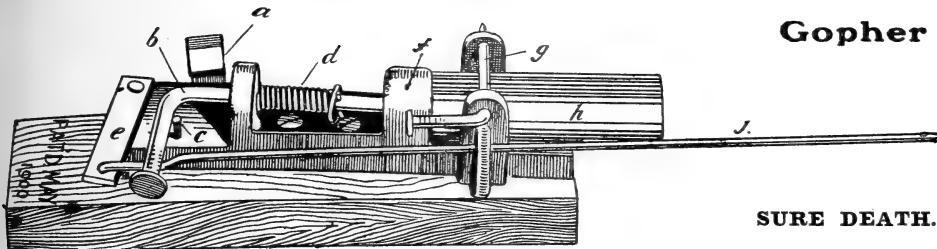
BLACK HAWK CORN SHELLER.

Well made and very quick in its work. Price, \$2.75.

HANDY CORN HUSKER.

If you have corn to husk buy one. Price, postpaid, 25c.

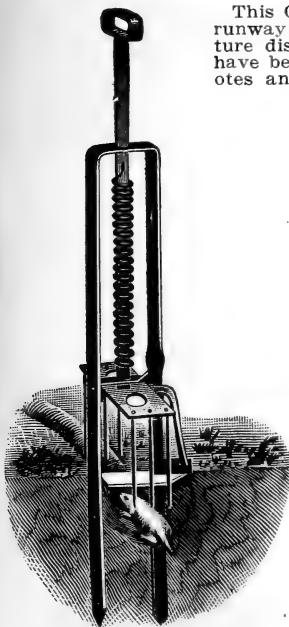
Traps



Gopher Gun

SURE DEATH.

This Gopher Gun is loaded the same as a breech loading shotgun and then placed in the runway of the mole or gopher. It is furnished with a safety device that prevents premature discharge. Made for 16-gauge shells. The gun is a great success and hundreds have been sold. It can be discharged by a push or a pull and can be set for hawks, coyotes and coons. Price, \$1.25

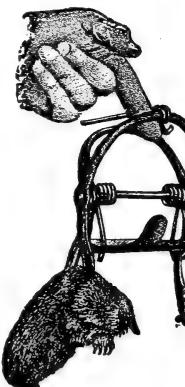


Reddick Mole Trap

In the early part of the season the mole-run shows above the ground, and all that is necessary is to press on the runway with the heel, closing it for a few inches, and set this trap directly astraddle of the run. Full directions with each trap.

No mole can pass under it and live.

These traps are strong and durable and worth the price to anyone troubled with moles. Price, \$1.00.



Mole Trap

This cut shows the best Mole Trap ever offered, and only has to be tried to be appreciated.

THE SECRET OF MOLE CATCHING

is a Good Trap, and to know the habits of the mole.

Full information sent with each trap.

Price, each, \$1.00.

Portland Seed Co.

Dear Sirs: Inclosed please find 25c. in stamps for which send me an "Out o' Sight" Gopher Trap. I have not missed one gopher with the trap I got of you a short time ago, and have caught about 35 with it.

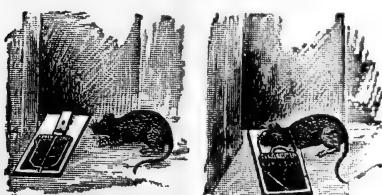
Yours truly, A. L. SMITH.

May 25, 1903.

REDDICK TRAP.

MOUSE AND RAT TRAP.

We can honestly recommend these traps.



Before Taken.

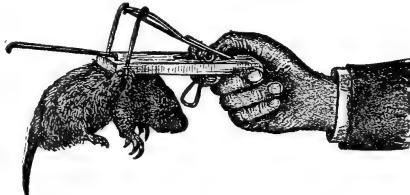
After Taken.

"Out o' Sight" Mouse Trap, postpaid...10c.
"Out o' Sight" Rat Trap, postpaid....25c.

These Traps require no baiting. They are worth twice the price we ask.



"OUT 'O SIGHT" GOPHER TRAP.



NEW PRINCIPLE

The Best Trap Made for POCKET GOPHERS.

No Danger and Easy to Set. Sure Catch.

Sample trap, sent postpaid for 25 cts.

Full Directions With Each Trap.

The "Clipper" Grain, Seed and Bean Cleaners

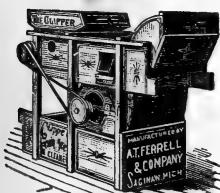
This is without doubt the best seed and grain cleaner on the market today. When it comes to real nice clean work it is far ahead of all the others.

The "Clipper" is especially adapted for making effectual separation of wild oats, cheat, cockle and all foreign seed from wheat and oats, as well as cleaning the perfect seed. Other manufacturers depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper," however, screens all straw and foreign matter from the grain before it enters the air shaft, and the "Vertical Blast" does the rest. The screens are so arranged as to be in plain view, and of easy access to the operator while machine is in operation. If you want the best cleaner on the market today, one that is guaranteed to please you, buy "The Clipper."

Seed dealers everywhere use the "Clipper," because they are the best. Descriptive catalogue and testimonials sent on request.

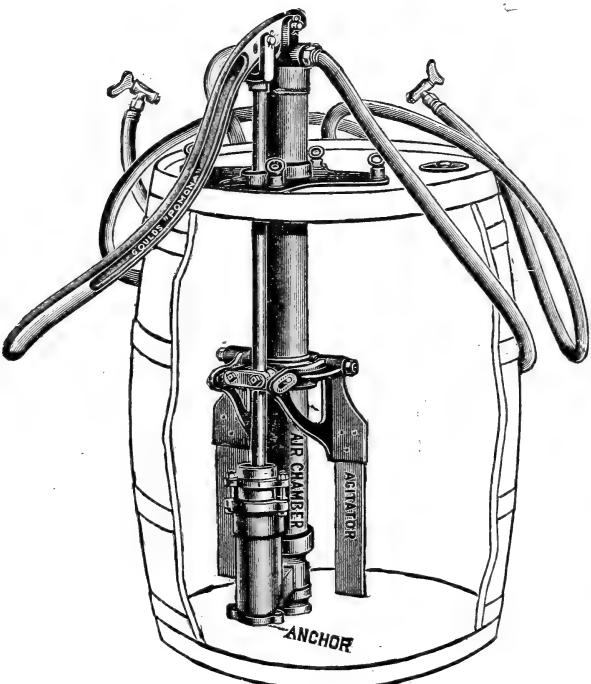
PRICES: No. 1, \$30.00; No. 2, \$35.00.

We have used "The Clipper" for years ourselves. It's O. K.



NO. 1 CLIPPER.

Spray Pumps



(FIG. 1100)

Every grower of fruit, berries or flowers should have a good sprayer or spray pump of some kind, one suited to the work that is to be done. If you want to get the best results you must spray, and spray often. Remember, a person derives the same satisfaction from using a good spray pump that he does from using a good article of any other kind; so when you buy, buy some of the following up-to-date and reliable outfits:

Gould's Pomona

OUR LEADING BARREL PUMP.

Fig. 1100. "Pomona" Spray Pump has won for itself an enviable reputation. We unhesitatingly offer it as the best orchard spray pump for mounting in barrel. It has great power and capacity. Briefly stated, other points of superiority are:

No leather packings, consequently no hardened and useless valves. All working parts bronze, including plunger, gland, valves, valve seats, etc. Plunger is outside packed. Valves are easily accessible. Air chamber is very large and of steel, free from imperfections of cast iron. Lever long and powerful, with adjustable stroke, three, four or five inches. The agitator, as shown in the cut, is operated by the stroke of the handle, so whenever any liquid is pumped it is thoroughly agitated. Pump is held securely by small anchor located at bottom of barrel and by adjustable clamp plate at the top. Our new plate will admit insertion or withdrawal from the barrel without removing the agitator.

OUTFIT A.—Pump only \$15.00

OUTFIT B.—Pump with 10 feet $\frac{1}{2}$ -in. best spray hose, 1 Vermorel nozzle, 1 8-foot bamboo extension, with globe valve, all complete \$19.25

OUTFIT C.—Just the same as Outfit B, except that we furnish a good hardwood barrel and mount the outfit \$21.75

OUTFIT D.—This is our regular Pomona outfit, the best barrel pump outfit that can be bought. It consists of 1 No. 1100 pump with 2 15-foot leads of best 4-ply spray hose, 2 Vermorel or Seneca nozzles, 2 8-foot bamboo extensions, with globe valves, all in working order and mounted on barrel \$25.00

A Few Reports

Gentlemen:—After using four other makes of Spray Pumps, I bought a Pomona and found it a great success.

I sprayed thirty acres of orchard with it for two seasons, and it was still as good as new and had cost nothing for repairs.

Last season, for my increasing business, I bought a Sentinel Jr., and find it equal to any demands that I can make on it. It is powerful, durable, readily cleaned and easy to work even at 100 to 125 pounds pressure. I consider it unequaled. Yours respectfully,

W.M. KENNEDY,
Hood River, Ore.
Jan. 12th, 1903.

Gentlemen:—A year ago I purchased from you a Sentinel Jr. Spray Pump. I have used it one season on my 20-acre orchard, and can truthfully say that I am well pleased with the results obtained. For simplicity in construction, durability in wear, easy operation, and thorough work, it receives my hearty commendation. Yours respectfully,

A. I. MASON,
Liberty Home, Hood River, Ore.
Jan. 5th, 1903.

E. L. Smith, the Hood River Apple Grower, Says:

"Spraying is the first essential of successful apple growing, or at least it is the thing without which success in apple growing is not possible."

Sentinel, Jr.

Fig. 1316. Gould's "Sentinel Jr." double acting spray pump is designed especially for, and meets the requirements of, the best orchardists and orange growers desiring quick work at high pressure. Notwithstanding the large capacity of this pump, one man can operate it constantly against over 100 pounds pressure, without undue effort.

Six nozzles are often used, with several leads of hose.

Piston is easily and quickly repacked, and all valves easily accessible.

Piston, piston rod, valves, valve seats and cylinder lining are brass.

Piston-rod is outside guided, so that it runs perfectly straight.

Pump ordered without hose has one-inch suction and two $\frac{1}{2}$ -inch discharge brass hose couplings, also brass strainer. Brass "Ys" for fitting two leads of discharge hose on a side furnished when ordered. Air chamber 5x30 inch.

OUTFIT A.—Pump only \$27.50

OUTFIT B.—Pump with 5 feet $\frac{1}{4}$ suction hose, two 25-foot leads 4-ply rubber hose, two bamboo extensions, globe valves and Vermorel nozzle \$39.00

Add \$2.50 to these prices if pressure gauge is wanted.

Don't wait to order your pump until you are ready to spray.

Let us know what kind of an outfit you want and we will quote you a price, freight paid, to your nearest station.

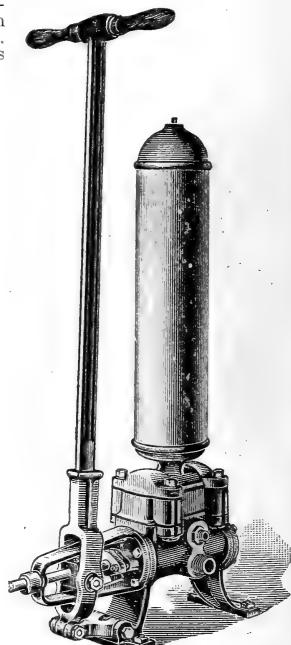


Fig. 1316.

"THE FRUITALL."

Fig. 1188. "Fruitall" Spray Pump is made on the same general lines as our now famous "Pomona." It is, however, made lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer, are made of brass. Regularly fitted with double wing paddle agitator, same style as used on "Pomona," and which has proved to be the best type. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fitting over end of stave. Not made for side of barrel.

OUTFIT A. Pump only \$11.00

OUTFIT B. Pump with 15 feet 4-ply spray hose and one Vermorel nozzle, all complete. \$14.00

Fig. 1129.

Brass garden and spray pump is especially designed for spraying in gardens and greenhouses. The pump is double action in effect; ball valves, proof against the action of acids and oils; Foot piece is malleable iron. Our "Seneca" nozzle is furnished with pump. Pump has no suction hose, but is set in pail or bucket, with foot-rest outside. Price complete....\$4.00

KNAPSACK PUMP.

Fig. 1323. consists of 5-gallon galvanized tank inside of which is brass pump. Is provided with straps for carrying on the back, or may be used as a bucket sprayer by removing long lever and operating pump by handle at top. Price

\$7.50

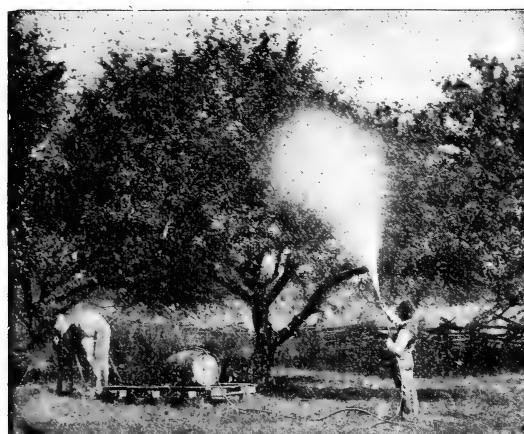
PRIZE.

All working parts are brass, bronze ball valves and malleable iron foot-rest. A splendid pump at a low price.....\$3.50

Fig. 561 1-2.

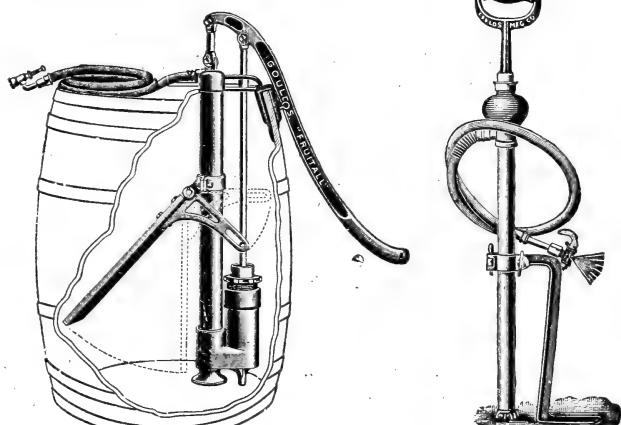
Brass bucket pump, arranged with suction and discharge hose and spray nozzle. With this nozzle a solid stream or a fine spray may be thrown. Pump has brass cylinder, plunger and rod. Pump is particularly adapted for washing windows and wagons, spraying flowers in conservatories, gardens, etc. Its weight is only eight pounds.

Price, complete \$5.75

**STANDARD SPRAYER.****"THE STANDARD" SPRAY PUMP.**
Simplest and handiest sprayer made.

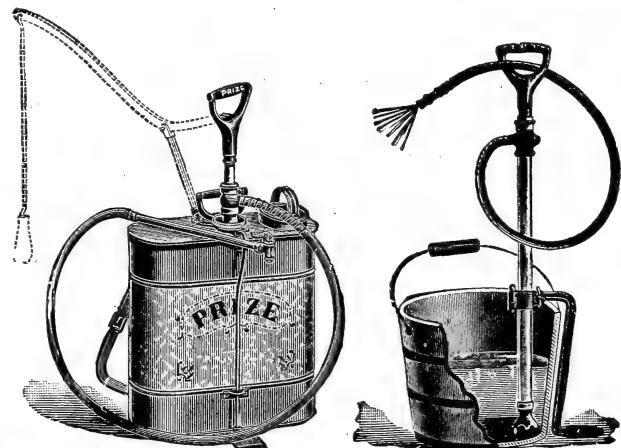
It is neat in appearance, substantially built from heavy gauge brass, provided with solid brass ball valves. It will neither wear out nor cause trouble. It has no leathers, washers or suckers, no castings to rust, no leaking joints, nothing to get out of order. For spraying small trees, bushels or gardens, for

whitewashing or disinfecting chicken houses, barns, etc., it has no equal. The Standard pump is provided with two nozzles, interchangeable. No. 1 throws a fine spray; No. 2 throws a solid stream; No. 1 attached direct to pump throws a coarse spray. Price, Standard Pump, complete with two nozzles and three feet of hose \$4.00



THE FRUITALL. Fig. 1188.

Fig. 1129.



KNAPSACK 1323.

PRIZE.

GOOD BOOKS.

On page 98 you will find our list of up-to-date books.

THE NEW WAY.

This cut shows the Standard Pump attached to barrel with 30 feet of hose, enabling the operator to walk around without moving the barrel, covering the entire tree from the ground. An ideal orchard sprayer at small cost.



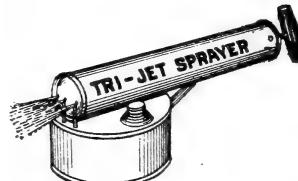
Fig. 561½.

FOR MORE INFORMATION ON OUR PUMPS AND SPRAYERS, WRITE TO US.

**ASPINWALL SPRAYER.**

One of the most convenient and economical for using liquid lice killers, sprays, etc.

Nothing cheap but the price, 75c.; charges paid, \$1.00.

**TRI-JET SPRAYER.**

Excellent for blowing powder on vines and bushes; good size and works fine.

Price, \$1.25.

TRI-JET SPRAYER.

For spraying vines, shrubs, plants and cattle (to keep off flies), and the interior of henneries, will save in spray material the price of the sprayer, in a single day's use. A first-class sprayer in every respect. Has three jets and makes a large fine spray.

Galvanized, \$1.00; prepaid, \$1.25.

Brass, \$1.25; prepaid, \$1.50.

SMITH'S PATENT FORCE PUMP.

Just the thing for whitewashing your henhouse, washing windows and other light work. Fine for the ladies, and children like to sprinkle the garden with them. Tin; four nozzles.

Price, \$1.00.

**SMITH PUMP.****WOODASON'S LIQUID AND POWDER SPRAYER.**

Well known sprayer; the powder sprayers are especially good.

For powder, small size \$1.50

For powder, large size 2.00

For powder, double cone 3.00

For liquid, small 1.50

For liquid, large 2.00

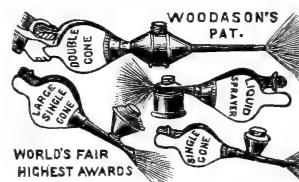
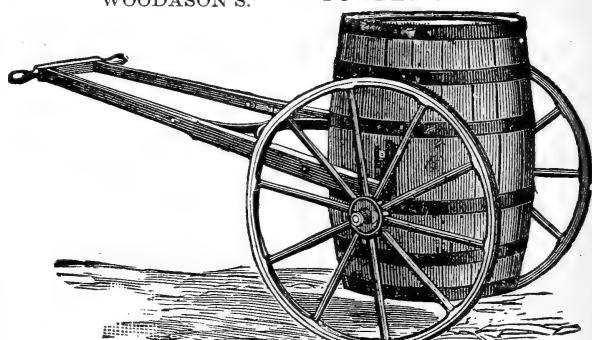
**ASPINWALL POWDER SPRAYER.****SPRAY PUMP BARREL CART.**

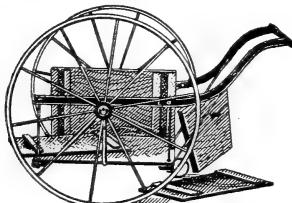
Fig. 1133. Improved barrel cart is found useful both for spraying and as watering cart. Any of our barrel spray pumps can be mounted in it. Running gear, when purchased separately, may easily be attached to any good barrel. Wheels are made of iron, have 4-inch tires. Barrel can be picked up and deposited by simply elevating the handles. Fig. 1133 is like cut shown, except that it has iron wheels and a rest for handles.

Cart without barrel, \$12.00.

Cart complete, with barrel, \$14.00.

**SPRAY PUMP CART, No. 1133.****BUTLER HAND CART.**

This cart is made with a platform box set on a dropaxle, so as to be near the ground. It can be used as a barrel cart or for hauling fruit, vegetables, wood, etc., about the place. The best all-around cart. Strong and well made. Iron wheels; 36 inches high; 1½-inch tire; frame all steel; platform 28x32 inches square; side boards, 15 inches high; box of hard wood.

**No. 2.**

Sideboards and ends can be put on or taken off in a few moments. Easily loaded as a wheelbarrow, and much better.

Fills the want for a two-wheel cart better than any other invention. Its usefulness is unlimited and is not confined to one special purpose.

The detachable box increases its utility. As such it will handle Fruit, Garden Truck, Grain, Leaves, Cut Grass, Trash, Ensilage, Fertilizer, barrels, kegs, boxes, packages, etc.

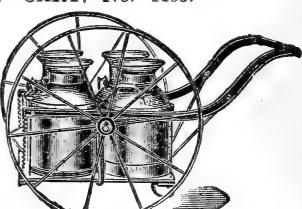
The Farmers' Friend. Can be used continually around the farm, dairy, creamery or garden.

The Gentleman's Friend. Nothing equals its usefulness about the lawn, yard or stable.

Price, No. 1, \$10.00.

Price, No. 2 with hard wood box, \$11.75.

Every farmer should have one.

**No. 1.**

Holds four large milk cans. In great demand in the creamery and dairy; low platform saves heavy lifting.

**Spray Material**

For list of Sprays, Spray Material and Washers; See page 82.



Nozzles, Connections and Hose Supplies

Fig. 81. "Seneca" Spray nozzle gives a very wide spray, covering a great area. The discharge can be nicely graduated. The nozzle may be cleaned by turning plug across the opening. The discharge is fan-shaped, and can be instantly shut off when not required, thus preventing waste of liquid. Recommended for orchard work. **Price, \$1.00.**

Fig. 55. "Vermorel" spray nozzle with degorger affords a conical discharge, adapting it for close-range spraying of vines, trees, etc. It is readily cleaned in operation by pulling or pressing the degorger against limb of tree, or pressing with thumb. A very popular nozzle everywhere.

Price, \$1.00.

Fig. 1103. Two-Discharger "Vermorel" nozzle covers twice the surface sprayed by the single nozzle. It is without doubt the best nozzle for general orchard work. **Price, \$2.00.**

Fig. 1104. Three - discharge "Vermorel" nozzle. The advantage of this nozzle will readily be appreciated where a large amount of spraying is to be done.

Price, \$2.75.

Fig. 51. "Cyclone" spray nozzle gives spray similar in form to that of the "Vermorel." Unlike "Vermorel," the "Cyclone" has no "degorger." **Price, 50c.**

Fig. 52. "Pacific Cyclone." differs from Fig 51 only in that it has end discharge. Both are cut for $\frac{1}{4}$ -inch pipe. **Price, 60c.**

Fig. 965. Bordeaux Spray Nozzle. Use this nozzle for whitewashing. Will throw a fine fan-shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream or may be shut off altogether, as desired. It is especially recommended for use in connection with the Bordeaux Mixture. **Price, each, \$1.00.**

Fig. 753. Globe Valve. Can be used on any of our pumps for closing off one nozzle at a time; $\frac{1}{4}$ inch round. **Price, 65c.**

Fig. 49 1-2. Brass "Y." is cut $\frac{1}{4}$ -inch female thread on inlet, and $\frac{1}{2}$ or $\frac{3}{4}$ -inch male thread on lateral discharges. **Price, 75c.**

Hop. Fig. 553.....**Price, \$1.50**

Three-Way Cock. Fig. 336.....**Price, \$1.75**

Nozzle Coupling and Hose Stock. Figs 749 and 67.....**Price, 25c.**

Nozzle and Hose Coupling. Fig. 966. **Price, 30c.**

BRASS YERDON'S BANDS.

Half inch**Post-paid, each, 5c.**
Three-quarter inch**Post-paid, each, 5c.**
Per dozen**Price, 50c.**

COUPLINGS.

Half inch**Post-paid, 25c.**
Three-quarter inch**Post-paid, 25c.**
One inch**Post-paid, 30c.**
One and one-quarter inch**Post-paid, 50c.**

LAWN SPRINKLERS.

Gem Pipe Nozzle.....**Price, 45c.**

Golden Gate.....**Price, \$1.00**

Rain Maker.....**Price, 50c.**

Plain Nozzle.....**Price, 50c.**

Adjustable Lawn Sprinkler.

Screws on to hose couplings, throws the water high or low, coarse or fine; very handy and convenient.

Price, 25c.

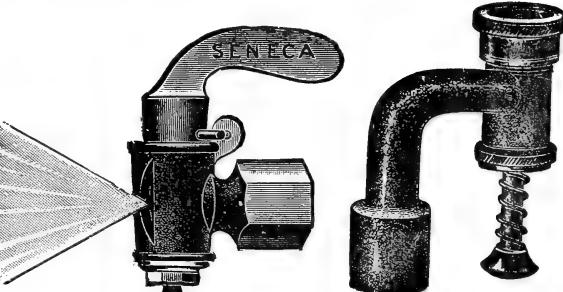


Fig. 81.



Fig. 55.

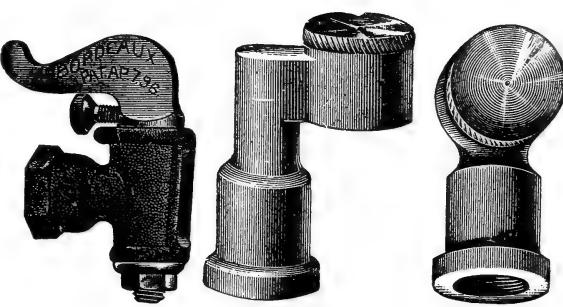


Fig. 965.

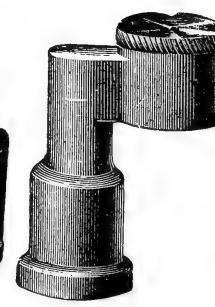


Fig. 52.



Fig. 51.

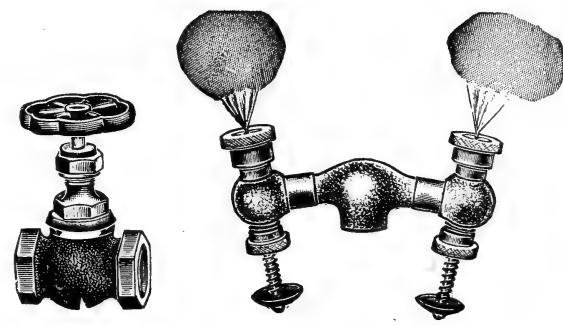
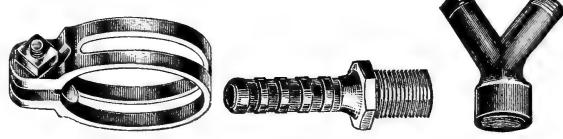


Fig. 753.

Fig. 1103.



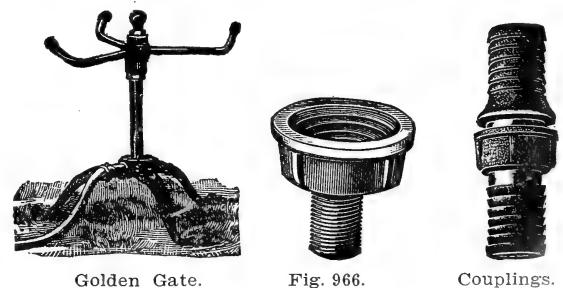
Yerdon.



Fig. 749.



Fig. 49 1/2.



Golden Gate.



Fig. 966.



Couplings.

Connections and Hose Supplies—Continued



Fig. 48.

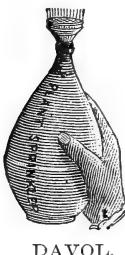
Fig. 48. Bamboo Extension. Has iron pipe inside of bamboo, making an easy and convenient extension to handle. Has stop cock fitted for $\frac{1}{2}$ or $\frac{3}{4}$ -inch hose. Other end cut $\frac{1}{4}$ -inch pipe thread to fit our spray nozzles.

Bamboo. Iron.

2 to 4 feet, with Globe Valve. Each	\$1.50	\$1.00
6 feet, with Globe Valve. Each	1.75	1.15
8 feet, with Globe Valve. Each	1.75	1.25
10 feet, with Globe Valve. Each	2.00	1.35

HOSE MENDERS.

Iron— $\frac{1}{2}$ inch, 5c.; $\frac{3}{4}$ inch, 5c.; 1 inch., 10c.
Brass— $\frac{1}{2}$ inch, 10c.; $\frac{3}{4}$ inch, 10c.

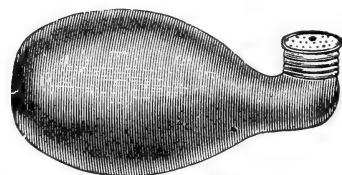


DAVOL.

Davol Plant Sprinklers

These are quite a superior article and possess a distinct advantage in the hard rubber tips. The bulb is of smooth, firm quality white rubber. The tips, well fastened at the neck, cannot be forced out, and being hard rubber, will not rust or corrode. A turn of the wrist unscrews the tip to fill bulb by suction.

	Each. Postpaid.	Each. Postpaid.
No. 2, 6 oz., straight tip	\$0.70	\$0.80
No. 3, 8 oz., straight tip	.75	.85
No. 4, 11 oz., straight tip	.90	1.00
No. 6, 6 oz., bent tip	.75	.85
No. 7, 8 oz., bent tip	.90	1.00
No. 8, 10 oz., bent tip	1.15	1.25



PERFECTION.

No. 1, angle neck..60c.; by mail, 65c
No. 3 90c.; by mail, \$1.00

Spray and Garden Hose

This season we are offering our customers a very complete and reliable line of spray and garden hose. We buy in very large quantities, direct from the manufacturers, which places us in a position to quote the following very low prices. Most of the brands we offer are manufactured especially for us and can be obtained nowhere else. Buy hose that is guaranteed.

Hose For Spray Pumps

Our experience of the past season has led to a number of improvements in our brands of hose, especially the double thickness of the tube in our spray hose. This has almost as thick a tube as steam hose and we guarantee it for the hardest service. The chemical solution will not penetrate the double thick tube and destroy the hose.

POMONA 4-PLY DOUBLE TUBE.

An excellent grade of spray hose and fully strong enough for any hand power barrel pump. We use thousands of feet of this hose yearly on our spray pumps, and it gives the best results. It has the lasting qualities.

Price, per foot, $\frac{1}{2}$ inch, 15c.

SUCTION HOSE.

Agricultural. Light weight. Per foot, $\frac{1}{4}$ in., 30c.

Celtic. Smooth bore. The spiral wire used in manufacturing is embedded in the wall, forming a perfectly smooth interior, thereby protecting it from the action of chemicals, also avoiding all friction and corrosion. We furnish it with all Sentinel pump outfits.

Price, per foot, 1 in., 45c.

Other sizes suction hose quoted on request.

Cotton Garden Hose

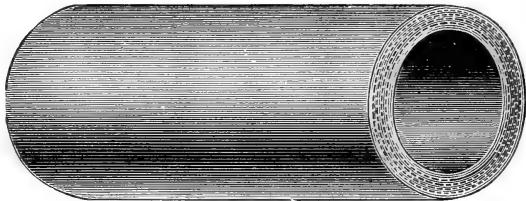
The demand for a light weight, yet strong and durable hose has been fully met by our new process rubber-lined cotton hose. The rubber lining is of best quality. Made in lengths of fifty feet, coupled before shipment. Twenty-five cents for couplings charged on $\frac{1}{2}$ and $\frac{3}{4}$ -inch hose in 25-foot lengths.

White Cotton. Good value for money.

Per foot, $\frac{1}{2}$ in., 7 $\frac{1}{2}$ c.; $\frac{3}{4}$ in., 9c.

Best Cotton Hose. Extra heavy, mildew proof.

Per foot, $\frac{1}{2}$ in., 12c.; $\frac{3}{4}$ in., 13c.



SEAMLESS TUBE GARDEN HOSE.

Rubber Garden Hose

The seamless tube in all our garden and spray hose is a most important feature, while the even thickness throughout insures a reliable hose. We have three grades.

No. 1 Garden Hose, Extra Quality. This is of the best quality, and is strong and durable. Guaranteed.

Price, $\frac{1}{2}$ in., per foot, 15c.; $\frac{3}{4}$ in., per foot, 16c.

No. 2 Garden Hose, Good Quality. A high-grade garden hose; good value.

Price, $\frac{1}{2}$ in., per foot, 12c.; $\frac{3}{4}$ in., per foot, 13c.

No. 3 Garden Hose, Medium Quality. Excellent value for the money; durable.

Price, $\frac{1}{2}$ in., per foot, 9c.; $\frac{3}{4}$ in., per foot, 10c.

No. 4. Competition. A medium-grade hose for little money.

Price, $\frac{1}{2}$ in., per foot, 5c.; $\frac{3}{4}$ in., per foot, 7c. Couplings furnished free on all 50 foot lengths.

The Finest Gardens

If you want the finest garden you ever had, plant P. S. Co.'s Seeds and enrich the soil with our "Diamond Brand" Fertilizers. A trial will convince you.

Diamond
Brand

FERTILIZERS

Diamond
Brand

We are the largest dealers and carry the most complete stock of Fertilizers and Fertilizing Materials In the Northwest. We solicit correspondence and orders from large buyers.

RESULTS OBTAINED BY USING OUR DIAMOND BRAND FERTILIZERS.

ON VEGETABLES AND GARDEN TRUCK.

The yield is much greater, and besides it advances maturity from one to three weeks. Many gardeners would not think of growing vegetables without it; they have tried it and found it better than any other.

ON POTATOES AND ROOT CROPS.

Potatoes require plenty of potash, and our No. 2 is just the right fertilizer to greatly increase the yield. One man last year near Portland almost doubled his crop with it. You could easily tell what rows he used it on, almost as far as you could see the field, by reason of the larger, thirstier vines.

ON TREES AND SMALL FRUITS.

The yield will be greatly improved and the quality much superior. One trial will convince you.

DIRECTIONS.

The best results from the use of commercial fertilizers will be derived by those who apply them in the early spring. It is very desirable that they be well mixed with the soil, otherwise they cannot be reached by the roots. No positive rule as to quantity can be given. The average amount is 300 to 500 pounds per acre; but market gardeners often use three to four times that amount and find that it pays.

No. 1. COMPLETE FERTILIZER.

An all-around fertilizer for ordinary farm and garden products. Contains high percentages of fertilizing properties and is highly satisfactory to all who use it. Analysis: Nitrogen, 2 per cent; phosphoric acid, 6 per cent; potash, 8 per cent.

Prices, per 100 lbs., \$2.00; 500 lbs., \$9.50; 1000 lbs., \$18.00; ton, \$35.00.

No. 2 VEGETABLE AND ROOT.

Use this fertilizer on all garden and root crops. Highly recommended by market gardeners. It is much richer than No. 1 and is the best fertilizer on the market for potatoes. Analysis: Nitrogen, 3½ per cent; phosphoric acid, 7 per cent; potash, 9 per cent.

Price, per 100 lbs., \$2.50; 500 lbs., \$12.00; 1000 lbs., \$23.00; ton, \$45.00.

No. 4. FRUIT FERTILIZER.

This excellent fertilizer is made expressly for fruits. Its use for fruit trees, vines and shrubs of all kinds will be followed by a great improvement in the quality and increase in quantity. It lasts for several years, and is far better for the plant or tree than manure, and gives greater returns. Analysis: Nitrogen, 2 to 3 per cent; phosphoric acid, 7 per cent; potash, 9 to 10 per cent.

Price, per 100 lbs., \$2.25; 500 lbs., \$10.00; 1000 lbs., \$19.00; ton, \$37.50.

We sell tons of No. 4 to the strawberry growers at Hood River. It pays to use it.

No. 5. DIAMOND LAWN FERTILIZER.

ODORLESS.

A fertilizer which we have found to be never failing in inducing a rapid and rich green growth to the lawn. It meets the wants of hundreds of patrons who desire a clean, portable and convenient lawn dressing. Fifty to one hundred pounds is sufficient to go over a city lot, or double for forming a new lawn. Remember, it contains no weed seeds, like barnyard manure.

Price, 25-lb. sk., \$1.00; 50-lb. sk., \$1.50; 100-lb. sk., \$2.50.

WELL PLEASED

Sept. 20, 1903.

Portland Seed Co.

Gentlemen: The Hop Fertilizer that I bought of you for my hops has proven very good. My hops were so heavy that they broke down the wires I had them strung upon, and I used ¼-inch cable and No. 6 wire, so you see that I must have had an extraordinary heavy crop. Yours truly,
M. W. FISHBURN,
Dayton, Oregon.

No. 10. HOP GROWER.

A fertilizer made especially for hops, very rich in potash, and if used freely in hop yards it will double the yield and increase the quality of the hops. Be sure that you get "Diamond Brand." Analysis: Nitrogen, 2½ to 3 per cent; phosphoric acid, 6 per cent; potash, 12 per cent.

Price, 100 lbs., \$2.25; 500 lbs., \$10.75; 1000 lbs., \$21.00; ton, \$40.00.

PURE BONE MEAL.

Animal bone finely ground is one of the very best and most economical fertilizers, especially at present low prices. A most valuable enricher of the soil, and crop producer. Our stocks are absolutey pure.

100 lbs., \$1.75; ton, \$30.00.

BONE FLOUR.

Acts quickly, and one of the very best for floral culture.

100 lbs., \$2.50.

LAND PLASTER OR GYPSUM.

Made from pure Gypsum, absolutely free from clay, sand or other foreign matter, 99 per cent pure. For a first-class fertilizer at a low cost, the "Oregon Land Plaster" is not equaled. Especially valuable, and will have a marveous effect, on clover and all grass crops.

100-lb. sack, 75c.; ½ ton, \$6.00; ton, \$11.50.

FISH GUANO.

This is the very best quality of Guanos, containing high percentages of nitrogen, phosphoric acid and other fertilizing qualities.

100 lbs., \$2.00; ton, \$37.50.

SUPER-PHOSPHATE.

This is a first-class article and acts in a remarkably short time.

100 lbs., \$2.25.

DOUBLE SUPER-PHOSPHATE.

This is twice as strong and a very superior article to that generally offered.

100 lbs., \$3.50.



FLOWER FOOD.

A safe, clean and high-grade fertilizer, free from disagreeable odor, prepared especially for feeding plants grown in pots. It is a wonderful invigorator, producing luxuriant, healthy growth, foliage of rich texture and larger and more brilliant flowers.

It contains in a highly concentrated form all of the ingredients of plant food essential to the highest development of the plants and flowers. It is very soluble and is readily assimilated, so that marked improvement is usually noticed in ten days' time. It is fine and dry, clean and easy to apply, either sprinkled over the surface of the soil as a top dressing or dissolved in water (stirring well). Detailed directions on each package.

½-lb. box, 15c.; by mail, 25c.; 1-lb. box, 25c.; by mail, 40c.

BOWKER'S PLANT FOOD.

A first-class fertilizer for house plants.

½-lb. pkg., postpaid, 25c.; 1-lb. pkg., 30c.; postpaid, 55c.

Fertilizers—Continued

NITRATE OF SODA.

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop. 100 lbs., \$3.25. Write for ton price.

FREE BOOKS.

We will furnish to our customers, free of charge, the following books, on the use of fertilizers, etc.:

How Money Crops Feed.

Nitrate of Soda Notes.

Market Gardening with Nitrate

Nitrate of Soda for Sugar Beets.

Farmers' Guide

Sugar Beet Cultivation.

All we ask is a two-cent stamp to pay for postage on each book wanted.

Potash

Is one of the most important fertilizing elements. Every farmer should find out by practical experiment what his soil needs and avail himself of the large profit to be derived from the use of potash and other commercial fertilizers. We have a large stock of Potash Salts, direct from the mines at Stassfurt, Germany, and are in position to furnish them at reasonable prices.

Muriate of Potash ... lb., 3½c.; sack, 224 lbs., \$6.25
Sulphate of Potash ... lb., 3¾c.; sack, 224 lbs., \$7.00
Kanit lb., 1½c.; sack, 224 lbs., \$2.25

Spray Material and Washes

For Destroying Insects, Scale, Etc.

We give below a list of washes, recommended by the State Board of Horticulture, for destroying insect pests on trees, etc.; also other washes and ingredients for same use.

DUNN'S PREPARED SPRAYS.

No. 1.—Winter Spray for San Jose Scale and Peach Curl Leaf. Ingredients: Salt, lime, sulphur, etc. For winter use, 1 lb. to 3 gals. of water; for summer, 1 lb. to 8 gals. of water. Price, 1 lb., 10c.; 25 lbs. to 50 lbs., 5c. per lb.; 100 lbs. or more, at 4½c. per lb.

No. 2.—For San Jose Scale and Woolly Aphis. Ingredients: Sulphur, lime, blue vitriol. For winter use, 1 lb. to 2½ gals. For a preventive, 1 lb. to 5 or 6 gals. For summer, 1 lb. to 8 or 10 gals. For Codlin Moth, add to 8 or 10 gals. of solution a full ¼ oz. of Paris Green or London Purple. Price, 1 lb., 10c.; 25 lbs. to 50 lbs., 6c. per lb.; case of 100 lbs. or more, 4¾c. per lb.

No. 5.—Whale Oil Soap. Summer spray for hop louse and green aphid. Use 1 lb. to 7 gals. of water. Price, 1 lb., 10c.; 25 to 50 lbs., 5½c. per lb.; case of 100 lbs. or more, 5c. per lb.

No. 7.—Bordeaux Mixture for Fungi. Ingredients: Sulphate of copper and lime. For winter use 1 lb. to 2 gals. of water; for summer, 1 lb. to 4 gals. of water. Price, 1 lb., 10c.; case of 25 lbs. to 50 lbs., 7c. per lb.; case of 100 lbs. or more, 6½c. per lb.

No. 7.—Bordeaux in Liquid Form. We also have this valuable remedy prepared in liquid form. Directions are attached to each can. One gallon of this condensed liquid makes 50 gallons of spraying liquid. It is better and cheaper than the ordinary home-made mixture.

Qt., 60c.; 2 qts., \$1; gal., \$1.50.

Aphis Punk. Is a special preparation of nicotine for the extermination of green and black fly, thrip, etc., in greenhouses and conservatories. Full directions with each package.

Per roll, 5c.; box, 12 rolls, 60c.; case, 12 boxes, \$6.50.

Arsenic Soap. To kill aphid on plants or bushes. Per can, 25c.

Babbitt's Lye. Per can, 10c.; 1 doz. cans, \$1.00.

Bluestone. Used in many solutions. 1 lb., 10c.; 10 lbs., 80c.; 100 lbs., market price.

Buhack. An effective insect powder. Per ounce, 10c.; ¼ lb., 25c.; 1 lb., 75c.

Fostite. Copper sulphate, soapstone powder, for mildew or fungus. Per lb., 15c.

Fir Tree Oil Soap. The best thing we know of for killing green aphid on shrubbery and garden plants. ½-lb. can, 25c.; by mail, 35c.; 2 lbs., 75c.

Hammond's Slug Shot. Best thing for destroying cabbage and turnip flea, potato bugs, currant worms, etc. Per lb., 15c.; 5-lb. package, 50c.

Hammond's Grape Dust. To prevent mildew on roses, grapes and gooseberries. Per lb., 15c.; 5-lb. package, 50c.

Hellebore. An excellent protection from currant and gooseberry worm, grape slugs and caterpillars. ¼ lb., 15c.; ½ lb., 20c.; 1 lb., 35c.

Kerosene Emulsion. An excellent spray for wooly aphid and clover mite. 1 quart, 60c.; 2 quarts, \$1.00; 4 quarts, \$1.50.

Lime. Market price. Per lb., 30c.

London Purple. Per lb., 10c.; 100 lbs., \$5.00.

BLUE LABEL SLUG DESTROYER.

The only effective remedy for killing slugs. This is the first powder of its kind that we ever found that would positively kill slugs and keep them away from

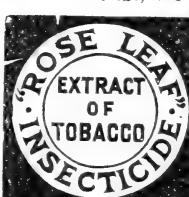


young plants. For slugs and cut worms on Pansies, Sweet Peas and all plants and garden truck, sprinkle the powder lightly over and around the plants.

Non-poisonous to man or beast. Full directions on each package. Put up in 25c., 50c. and \$1 packages. The 25c. package will be sent by mail, postpaid, for 35c.; 50c. package for 75c.

Paris Green. Mixed at the rate of one pound to 200 gallons of water, it will prove effective against all chewing insects. 1-lb. pkg., 35c.; 2-lb. pkg., 65c.

Quassia Chips. Used with whale oil soap makes a good remedy for lice on cabbage, cauliflower, etc. 1 lb., 10c.; 10 lbs., 70c.; 100 lbs., market price.



Rose Leaf. (Tobacco Extract.) A perfectly pure concentrated extract of tobacco, very effective for destroying all insects and scale on plants.

Pint, 30c.; quart, 50c.
Sal Soda. Per lb., 10c.
Salt. Market price.

Sulphur Powder. Lb., 5c.; 100 lbs., market price.
White Arsenic 1 lb., 15c.

Tobacco Stems. For fumigating plants infested with green fly. Per lb., 3c.; per 100 lbs., \$2.50.

Tobacco Dust. If dusted on while foliage is moist it destroys rose lice, cabbage and turnip fleas, etc. Spread on ground it keeps off earth insects. Per lb., 10c.; 10 lbs., 60c.; 100 lbs., \$4.50.

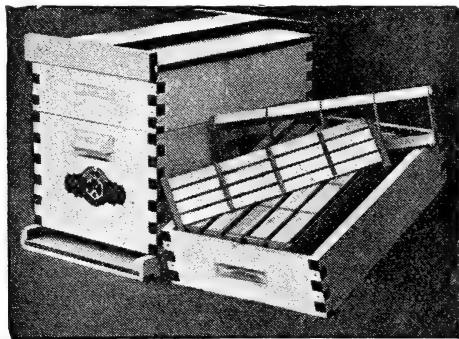
All Powders should be applied with Powder Blower. See page 78.

Bee Supplies

Our stock of Bee supplies this season is very large and up to date in every way. We are Western agents for the famous A. I. Root Dovetailed Hives and supplies, and buy carload after carload of these popular supplies. Our stock also includes a full assortment of the articles necessary for handling bees in an up to date manner. We give herewith a list which includes most of the principal articles that are used by bee keepers. We would request anyone who is specially interested in this line to write us for our complete catalogue of Bee Supplies, the new edition of which will come out in the spring.

DOVETAILED HIVES AND FIXTURES.

The Dovetailed Hive is taking the lead over all hives, as it contains many of the most desirable features for the rapid handling of the bees, and is one of the cheapest hives manufactured.



DOVETAILED HIVE. A E 6 4 P-8.

This combination contains foundation starters for both the brood frames and sections, although it cannot be shown in the cut. See figures and numbers below:

ROOT'S HIVE COMBINATIONS and How to Understand Them.

To accommodate various localities and bee-keepers of different preferences, we have a large number of different combinations; and each combination is indicated by a series of letters and figures. A glance at the following table showing the meaning of each letter or figure in alphabetical and numerical order will make all plain.

- A Danzebaker bottom.
- E Excelsior cover.
- G The Gable cover.
- I super for Ideal plain sections $3\frac{1}{2} \times 5$.
- M super 4x5 plain sections for Danz. hive.
- P super equipped for plain $4\frac{1}{4}$ sections.
- S super for $4\frac{1}{4}$ beeway section, old style.
- 2 super with section holders, separators or fences, but no sections or foundations.
- 4 super with section holders, separators or fences, sections and foundation starters.
- 5 hive body or brood chamber, with frames and division board, but no starters.
- 6 hive body or brood chamber with frames, division board and foundation starters.

When the figures are doubled it indicates that two of the articles are called for. For instance, 22P means two supers with plain section holder and fences.

If you desire a Danz bottom-board, Excelsior cover, 8-frame dovetailed hive with frames, foundation and super with section holders, $4\frac{1}{4}$ plain sections, fences and foundation, the number would stand thus: AE64P-8.

If you wish two supers, in place of the one 4 you would add another figure 4, and the whole would read for 8-frame hive, AE644P-8; or, if you wanted this same combination without foundation or sections, the designation would be AE522P-8.

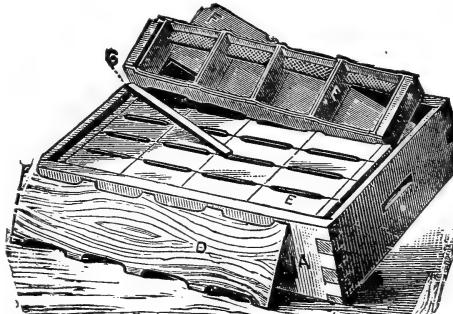
ROOT'S EIGHT-FRAME HIVES. PRICES:

HIVES.	Each N't'd	K.D. in Flat		Weight of 10
		5	10	
AE or AG, 5 hive	\$ 1.65	\$ 7.00	\$13.50	190
AE or AG, 6 hive	1.70	7.50	14.50	195
AE or AG, 52 hive	2.20	9.25	18.00	260
AE or AG, 64 hive	2.50	10.75	21.00	280
AE or AG, 522 hive	2.70	11.50	21.50	320
AE or AG, 644 hive	3.20	13.75	27.00	350
AE or AG, 55 hive	2.50	10.90	21.50	320
BOTTOM—				
A bottom .....	.30	1.40	2.70	40
COVER—				
E or G cover .....	.40	1.70	3.35	40
EMPTY BODY—				
Empty body, $9\frac{1}{2}$ inches deep with tin rabbits .....	.60	2.50	4.90	80
5 body, with frames and division board .....	.95	4.25	8.30	130
6 body, same as 5, plus founda- tion	1.05	4.75	9.20	135
SUPERS—				
Shallow super with flat tin .....	.35	1.45	2.75	40
No. 2 P. S. or I super .....	.65	2.75	5.25	65
No. 4 P. S. or I super .....	.80	3.70	7.10	75
DANZEBAKER HIVES—				
Danz. AE or AD, 5 M-10	1.80	7.65	15.00	200
Danz. AE or AD, 52 M-10	2.50	11.25	22.00	300
Danz. AE or AD, 64 M-10	2.85	13.00	25.00	330
Danz. 2 M-10 super	1.00	4.25	8.00	100
Danz. 4 M-10 super	1.30	5.50	10.75	120

P. S. CO.'S DOVETAILED SUPERS.

No.	Nailed or K. D.	Packed in Flat.	Weight	
			1	5
1	\$0.75	\$3.40	\$6.50	75
1-B .....	.75	3.40	6.50	75
1 Cedar .....	.60	2.75	5.25	70
2 .....	.60	2.60	5.00	65
2-B .....	.60	2.60	5.00	65
2 Cedar .....	.50	2.25	4.00	60
O-Empty .....	.30	1.35	2.60	40

For description of super, see corresponding number describing hives.



Designated as 4-S. with Slotted Separators.

PORTLAND SEED CO.'S PINE HIVE.

This hive is similar to the Root Dovetailed Hive, except that it is made from a little different kind of Eastern Pine, but is first class.

NUMBERS AND DESCRIPTIONS:

No. 1 Dovetailed Hive (complete with 1 super) consists of one bottom board, 1 body, 1 super, 1 cover, 8 Hoffman brood frames, 1 division board, (2 tightening springs) for super, 6 section holders, 6 slotted separators, 24 sections and foundation starters for frames and sections, and nails.

No. 2 Dovetailed Hive is the same as No. 1, less sections and foundation starters.

No. 3 Dovetailed Hive is the same as No. 1, except that it has two supers instead of one.

No. 4 Dovetailed Hive is the same as No. 3, less sections and foundation starters.

No. 10 Dovetailed Hive (complete two-story for extracting), consists of 1 bottom board, 2 bodies, 1 cover, 16 Hoffman brood frames, 2 division boards and nails.

Brood Frames

PRICES PORTLAND SEED CO.'S PINE HIVE.

No.	Nailed or K.D.	Packed in Flat.	W'ght	of 10
1.	Complete	\$2.15	\$19.00	280
1-B.	Complete	2.15	19.00	280
2.	Empty	1.85	16.00	260
2-B.	Empty	1.85	16.00	260
3.	Complete	2.70	24.00	350
3-B.	Complete	2.70	24.00	350
4.	Empty	2.20	19.50	320
4-B.	Empty	2.20	19.50	320
10.	Empty	2.20	19.50	320

"B" designates supers with Fence Separators and $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ inch sections. Five hives at same rate as ten.

PORTLAND SEED CO.'S CEDAR HIVE.

We also offer this year a cedar hive made up of a superior quality of cedar instead of pine. This is a hive that will last for years. It is neatly made, and for a low-priced article, is first class.

No.	Nailed or K.D.	Packed in Flat.	W'ght	of 10.
1.	\$1.85	\$8.00	\$16.00	275
2.	1.60	6.75	13.50	250
10.	2.00	8.50	17.00	300

IMPROVED HOFFMAN FRAMES.

Hoffman Frames, I. F. F. 10, 35c.; 100, \$3.00
Half Hoffman Frames 10, 30c.; 100, \$2.50

SECTION HOLDERS.

$1\frac{7}{8} \times 18\frac{1}{8}$ inches, slotted Per 100, \$2.40
 $1\frac{1}{2} \times 17\frac{1}{2}$ inches, plain Per 100, \$2.00
Bottoms only, $1\frac{1}{8}$ inches wide, slotted Per 100, \$1.15

SEPARATORS.

Slotted wood separators, $4\frac{1}{4} \times 18$ Per 100, \$1.00
Slotted wood sliced separators Per 100, .80
Plain separators Per 100, .65
Fence separators, P or I Per 100, 2.00
Fence Separators to be used with plain $1\frac{1}{2}$ no bee way sections.

HIVE PARTS.

Division Boards Each, 10c.; 10, 80c.
Followers and wedge Each, 5c.; 10, 35c.
Tightening Spring Each, 1c.; 10, 10c.

SECTION HONEY BOXES.

Our No. 1 Sections are made of the choicest white basswood lumber, and are all perfect in finish and free from defects. They are not all snow white, but vary from that to light cream color. Choice honey shows off to best advantage in a section not too white, as it is the honey rather than the wood that the customer looks at.

PRICE OF NO. 1 WHITE SECTIONS.

Per 100, 70c.; per 500, \$3.00; per 1000, \$5.90.

NO. 2 CREAM SECTIONS.

Per 100, 60c.; per 500, \$2.60; per 1000, \$5.00.

Order size wanted. We have:

$4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{8}$.

$4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{3}{4}$.

$4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$.

$4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{4}$, no bee way, 25c. M less.

$4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$, no bee way, 25c. M less.

$4\frac{1}{4} \times 4\frac{1}{4} \times 15-16$.

$4 \times 5 \times 1\frac{1}{8}$ Danz.

$3\frac{1}{8} \times 5 \times 1\frac{1}{2}$, no bee way, 25c. M less.

$3\frac{1}{8} \times 5 \times 1\frac{1}{4}$, no bee way, 25c. M less.

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$3\frac{1}{8} \times 5 \times 1\frac{1}{2}$, no bee way, 25c. M less.

$3\frac{1}{8} \times 5 \times 1\frac{1}{4}$, no bee way, 25c. M less.

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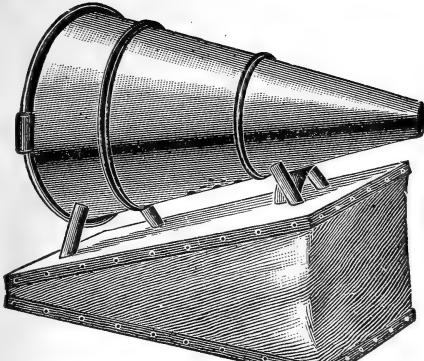
$3\frac{1}{8} \times 5 \times 1\frac{1}{2}$, no bee way, 25c. M less.

$3\frac{1}{8} \times 5 \times 1\frac{1}{4}$, no bee way, 25c. M less.

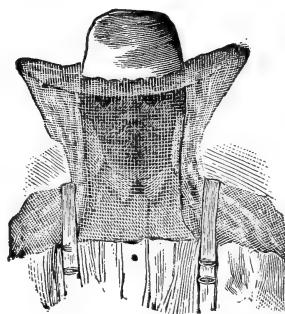
$3\frac{1}{8} \times 5 \times 1\frac{1}{2}$, no bee way, 25c. M less.

$3\frac{1}{8} \times 5 \times 1\frac{1}{4}$, no bee way, 25c. M less.

$3\frac{1}{8} \times 5 \times 1\frac{1}{2}$, no bee way, 25c. M less.



CLARK'S COLD BLAST SMOKER.



Bee Veils



FIVE-BAR BEE VEIL.

No trouble to put on or take off. It protects against mosquitos, flies, bees, gnats, etc. The veil weighs only five ounces.

Price, \$1.10.

HAT VEIL.

These veils have a rubber band around the top, so as to fit the hat snugly; the lower edge is bound, to prevent fraying. The kinds of material are given below:

PRICE LIST OF VEILS.

No. 1.	Veil, made entirely of silk tulle....	80c.
No. 2.	Veil, cotton tulle with silk tulle face....	50c.
No. 3.	Veil, cotton tulle throughout	40c.
BOARDMAN.	No. 3½. Veil, mosquito bar, silk tulle face....	40c.

Smokers

CLARK'S COLD BLAST.

Our experience has proven that for a cheap smoker the Clark is the best.

Price, 60c.; by mail, 75c.

CORNELL.

It is neat in appearance and does not topple over easily. Makes a good, strong blast, with little work.

Price, standard size, 3¼ in., \$1.00; by mail, \$1.25.

BINGHAM.

This is strong, well made, does not clog up, and burns any fuel. It has recently been improved by the addition of a curved snout to prevent fire dropping, and a safety attachment prevents burning the fingers in removing the hot cone for replenishing.

The "Conqueror" and "Doctor" cannot be excelled for use in large apiaries.

	Each.	By mail.
Bingham, Conqueror	\$1.00	\$1.25
Bingham, Little Wonder .....	.60	.75
Bingham, Doctor	1.25	1.55
Bingham, Large .....	.90	1.10
Bingham, Engine	1.60	1.85

VESUVIUS.

This is a practical working hot-blast, breech-loading smoker. Easy to fill and light; does not go out, makes a good clean smoke without sparks.

Price, \$1.25; by mail, \$1.50.

CRANE.

This is similar to the Bingham, but somewhat heavier.

Price, \$1.50; by mail, \$1.80.

Gloves, Rubber

Ladies Sizes, 7, 8 and 9.

Price, \$1.15; by mail, \$1.20.

Gents' Sizes, 10, 11 and 12.

Price, \$1.25; by mail, \$1.30.

Men's, Nos. 13, 14 and 15.

Price, \$1.50; by mail, \$1.60.

Men's Heavy, Nos. 13, 14 and 15.

Price, \$1.75; by mail, \$1.85.

To insure getting proper size, mark outline of hand on sheet of paper. If you order by number, order two sizes larger than you require in kid.

Swarm Catchers

MANUM'S.

With pole, \$1.50; without, \$1.10.

Feeders

PAGE FEEDER.

Each, complete, 30c.; in lots of 10, each, 25c.; by mail, 25c. extra.

MILLER'S FEEDER.

Each, nailed up, complete, 35c.; in flat, 30c.

BOARDMAN'S FEEDER.

Without jar, 20c.

SIMPLICITY FEEDER.

Price, 10c.; by mail, 15c.; 10 feeders, 75c.

GRAY'S COVERED SIMPLICITY FEEDER.

Price, 20c.; by mail, 35c.

ALLEY'S COMBINED DRONE AND QUEEN TRAP.

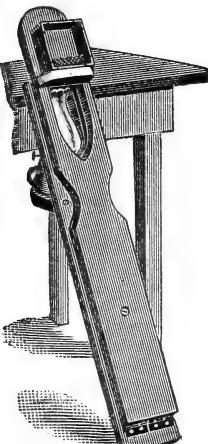
A perfect non-swarming arrangement. Each, 50c.; by mail, 65c.

ALLEY'S DRONE AND QUEEN TRAP.

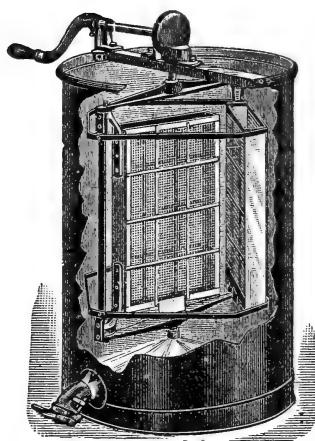
1903 EDITION

of the A B C of BEE CULTURE
is larger, finer and better than
ever. Every owner of a colony of
Bees should have a copy. See our
Book List.

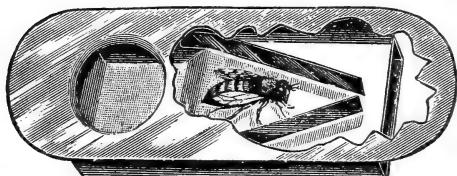
Complete Bee Supply Catalog, free on request. Every bee keeper should have it.



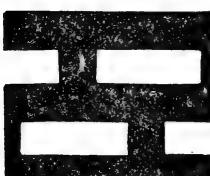
DAISY.



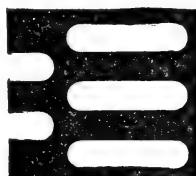
COWAN'S EXTRACTOR.



PORTER BEE ESCAPE.



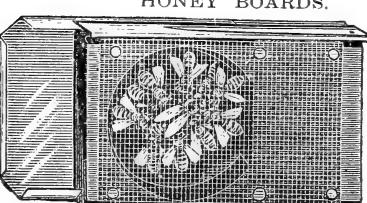
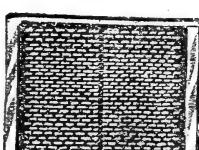
ROOT'S.



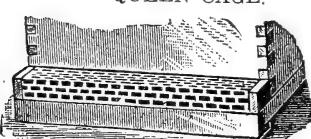
TINKER'S.



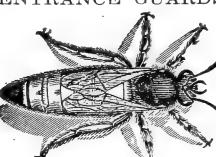
HONEY BOARDS.



QUEEN CAGE.



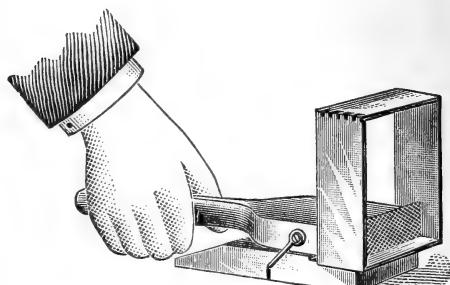
ENTRANCE GUARDS.



QUEEN BEE.

DON'T WAIT

Until the bees swarm before you order your hives. Get them early and be prepared.



PARKER'S FOUNDATION FASTENER.

FOUNDATION FASTENERS.

DAISY	Without lamp, \$1.00
PARKER'S	30c.; by mail, 45c.
HUBBARD SECTION PRESS	\$2.75

HONEY EXTRACTORS.

COWAN. No. 15, two frames	\$13.50
NOVICE. No. 5	10.00

PORTER BEE ESCAPE.

Post-paid, 20c.; mounted, express, each	40c.
---	------

PORTER HONEY-HOUSE ESCAPE.

Each, post-paid	35c.
-----------------------	------

PERFORATED ZINC.

Perforations, 17-100 wide. This is used between the upper and lower stories, to prevent the queen going up above. It is also used in entrance guards for queen and drone traps, etc.

Zinc strips, 1 row holes, $\frac{1}{4}$ x18 to $1\frac{1}{2}$ inch.

Each, 2c.; per 100, \$1.50.

Zinc sheets, Root's perforated solid, 28x96.

Each, \$2.00; 36x96, \$2.50.

Zinc sheets, Tinker's 28x96. Each, \$2.40.

Less than a sheet Zinc, per square foot, 10c.; by mail, 10c. per foot extra. Zinc strips may be sent by mail for 1c. each for postage.

HONEY BOARDS.

ROOT ZINC.

No.	Name and description.	Size.	Prices—
11,	8-frame, unbound .....	.12x19 $\frac{1}{2}$	\$.25 \$2.00
1,	10 frame, unbound .....	.14x19 $\frac{1}{2}$	.25 2.10
13,	8-frame, wood bound .....	.13 $\frac{1}{2}$ x20	.30 2.50
12,	10-frame, wood bound .....	.16 x20	.30 2.60

QUEEN CAGES.

THE PEET CAGE. This has been the leading cage for many years. It is an excellent one for introducing queens. **Each, 10c., post-paid.**

BENTON CAGE. This is undoubtedly the best cage for mailing and is adapted likewise for introducing. Directions for introducing are printed on the cover.

Each, no candy, 5c.; by mail, 7c. With candy, each, 10c. by mail.

WAX EXTRACTORS.

DOOLITTLE SOLAR. Weight, 30 lbs.....	\$4.50
SWISS	\$3.00; with steam generator, \$4.00

ENTRANCE GUARDS.

ROOT'S OR TINKER'S	10c. each, 10 for 90c.; by mail, 15c. each
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QUEEN BEES—Pure Blooded Italian.

UNTESTED QUEEN—April, \$1.75; May, \$1.50; June, \$1.50; July, Aug.-Sept., \$1.25.

TESTED QUEEN—April, \$2.50; May, \$2.00; June, \$2.00; July-Aug.-Sept., \$1.50.

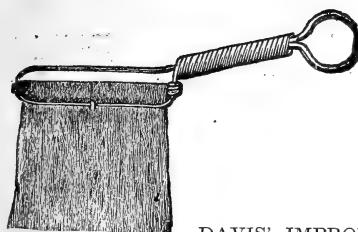
SELECT TESTED QUEEN—April, \$3.50; May, \$3.00; June, \$3.00; July, \$2.50; Aug.-Sept., \$3.00.

FULL COLONY OF BEES—April, \$8.00; May, \$7.00; June, \$7.00; July, \$6.00; Aug.-Sept., \$6.00. Queens by mail are prepaid.

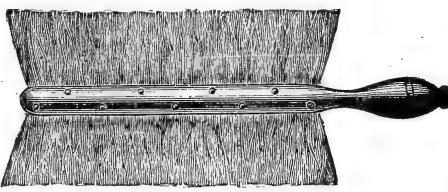
BOOK ON BEES—A B C of Bee Culture.

This is a regular encyclopedia on bees. The latest revised editions are almost worth their weight in gold to those who handle bees. Price, \$1.25, post-paid.

We are always in the market for Beeswax and pay the highest prices.



DAVIS' IMPROVED.



DIXIE BEE BRUSH.

We are always in the market for Beeswax and pay the highest prices.

BEE BRUSHES.

COGGSHALL'S. For the wholesale brushing of bees off combs when extracting, we do not hesitate to pronounce this the best. Price, 20c.; by mail, 25c.

DAVIS' IMPROVED. These have a galvanized wire handle, and are very serviceable and convenient. Each, 20c.; by mail, 23c.

THE DIXIE BEE BRUSH. This is a double brush with a strong wood handle, put together with brass nails to avoid rust. The strands are soft and pliable to give an easy, gentle sweep. The brush is long enough to reach clear across an ordinary frame. Price, 20c.; by mail, 25c.

VAN DUZEN HIVE CLAMPS.

Very convenient for fastening bottom board to hives, and various other uses. They come in pairs. Per pair, 5c.; 10 pairs, 40c.; by mail, 75c.; no screws, 10 pairs, 35c.; by mail, 65c.

SPUR WIRE IMBEDDER.

This is like a tracing wheel, with the teeth set so as to straddle the wire while imbedding it. Post-paid, 20c.

EASTERDAY IMBEDDER.

For imbedding wire in foundation. Price, 25c.

DAISY FOUNDATION ROLLER.

Post-paid, 20c.

KLIMITZ QUEEN CATCHER AND INTRODUCING CAGE.

For catching queens without injury. An excellent introducing cage. Description and printed instructions in each cage. Each, 15c.

QUEEN CELL PROTECTOR.

West's Queen Cell Protectors	Each. 10
West's Spiral Cages, post-paid	10c. 50c.
	10c. 80c.

HILL'S DEVICES.

For covering frames in winter. Price, 80c. for 10; by mail, 5c. each extra.

TIN RABBETS FOR HIVES.

A These are of folded tin, and are used for frame to rest on. The price is as follows: Rabbets for dovetailed hive, 12 to 14 inch, \$1.25 per 100. Rabbets of other lengths will be 1/4c. per foot. Rabbets are included with all our hives.

T TINS.

14 inches and under	Per 100, \$1.25
Over 14 inches and up to 16 inches	Per 100, \$1.40

FLAT TINS.

14 inches and under	Per 100, 50c.
Over 14 inches and up to 20 inches	Per 100, 75c.

NO. 30 TINNED WIRE.

Express,
Dozen.
8c. \$0.55
15c. 1.05
25c. 2.40
40c. 3.50
5-lb. coils \$1.25



3/4-oz. spools

1/4-lb. spools

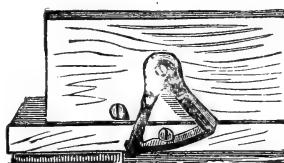
1/2-lb. spools

1-lb. spools

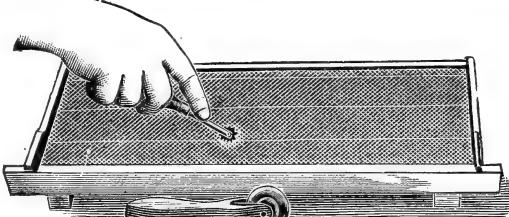
5-lb. coils



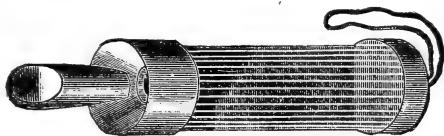
COGGSHALL'S.



VAN DUSEN HIVE CLAMP.



SPUR WIRE IMBEDDER AND DAISY ROLLER.



KLIMITZ CAGE.

HONEY KNIVES.

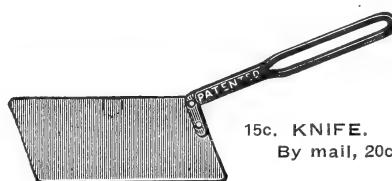
"NOVICE" HONEY KNIFE.
Price, 85c.; by mail, 90c.



QUIMBY KNIFE. Price, \$1.00; by mail, \$1.05.



ABBOTT HONEY KNIFE.
Price, 80c.; by mail, 90c.



15c. KNIFE.
By mail, 20c.

Free Premium

A \$1.00 BEE PAPER FREE! We will give to every customer who buys \$15.00 worth of bee supplies at catalogue prices a year's subscription to the finest bee paper in the United States—"Gleanings in Bee Culture"—published semi-monthly, \$1.00 per year. Every copy is worth a dollar, but you get it absolutely free with a \$15.00 order. No other premiums allowed where this is taken. If your order don't amount to \$15.00, get your neighbors to send with you. The premium is worth the trouble.

Poultry Supplies



The raising of poultry is a paying business, and a few dollars carefully invested in it will bring many in return. We have an ideal country for the chicken business. Our climate is mild, food is cheap and plentiful; and our markets are good. We trust the time will soon come when poultry and eggs will not have to be shipped into our state by the carload, as they are now, to supply the demand.

On this and the following pages you will find descriptions and prices of what we believe to be the best and most complete line of poultry supplies ever offered to poultry raisers. Our trade in this line has increased very rapidly during the past few years, as we keep up with the times. As soon as we find an article of merit and value we add it to our stock, and discard stock that is not "up-to-date" or satisfactory. The goods we are offering in this catalog are for those who want to make a success of poultry. They are the ones to whom we look for permanent trade, and it certainly would not pay us to sell goods that we cannot guarantee to be as represented. Therefore, if you want to buy reliable, practical and up-to-date poultry supplies, the cream of all stocks offered, select from the following list.

Please remember that this department is in charge of expert poultry men, who have had years of experience and fully understand the poultry business. We take an interest in our customers and are always glad to render them such assistance and help as our experience will permit. Will you be one of our customers?

Cornell Incubators

HANDSOME IN APPEARANCE, SUCCESSFUL IN EVERY RESPECT.

They won a Gold Medal and Highest Award at the late Pan-American Exposition.

The Cornell Incubator has proved itself, in actual operation in the hands of numerous poultrymen, to be the handsomest and most successful hatcher on the market. That's why we have secured the Pacific Coast Agency.

Its strongest recommendation is found in the fact that it hatches the healthiest and most vigorous chicks ever obtained by artificial incubation, and certainly no better were ever hatched by the natural method. The hundreds of testimonials we have on file prove this. This result is due largely to three points of excellence in which the Cornell shows its superiority over all other incubators yet invented. They are: Uniform Temperature, Positive Ventilation and Proper Moisture. These three most important points are fully explained in the large Cornell Catalog, copy of which will be mailed free on request; we cannot go into detail in the limited space in this book.

THE CORNELL INCUBATORS are not crude carpenter chests. They are fine cabinet constructed cases, put together under the personal supervision of experts, with such precision, nicety and solidity that they will stand the severest tests. The front, back, sides and top are made of separately constructed and finely fitted polished panels which allow for all expansion and contraction of materials and contribute to make

the Cornell the most handsome hatcher in appearance on the market.

CORNELL COMPOUND DOOR. The door of the new Cornell Incubator is entirely original and is found on no other make. It is a compound door—virtually two doors in one—both glazed and having an air space of one and one-half inches between the panels. This gives the advantage of two separate doors without their inconvenience. The door is edged with fine felt, making a positive fit and insuring proper insulation. The Cornell Compound Door is decidedly a new feature, and the most advanced device of its kind in use.

TABLE TOP. The top of the Incubator is cleared of all obstructions. It is as smooth and convenient as a table. The new regulator bar and its finely adjusted connections are placed beneath the cover out of sight and out of danger of disturbance or disarrangement. This happy chance is such a step in advance of the old irregular, irritating, disorderly, cumbersome contrivance which disfigures the tops of all other modern incubators, that peace-loving, progressive poultrymen will decide at once to buy the tasty-table-top Cornell Machine to do their hatching.

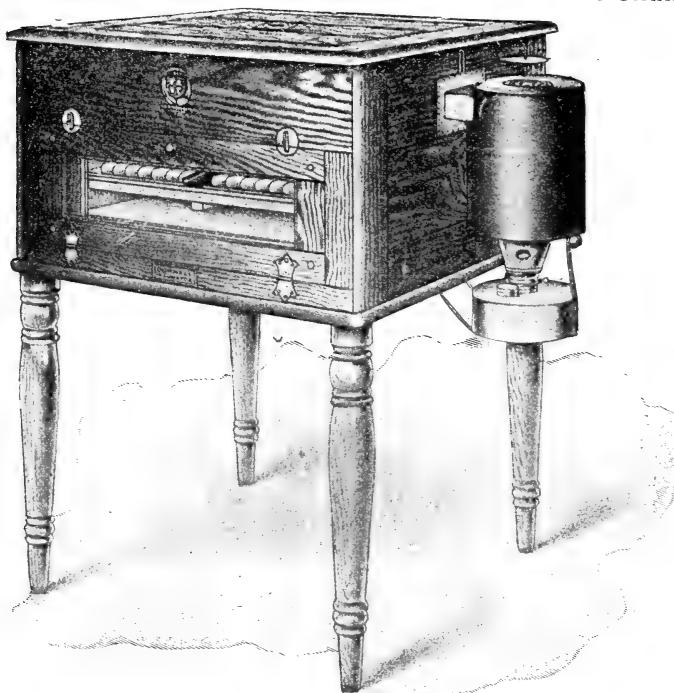
FIRE-PROOF HEATER. The heating apparatus of the Cornell Incubator is so simple in construction, so effective in operation, so economical of fuel and so well adapted in every way to its purpose that even the most conservative "chicken crank" on examination or trial promptly endorses it as the best heater yet invented. It utilizes the heat of the lamp fumes to the fullest extent, but none of the smoke enters the egg chamber.

The heater pours pure, properly tempered, fresh air into the interior of the machine and after the warmth and oxygen of the air are utilized forces the exhausted air out of and away from the incubator. The same air is not used over and over again.

THE LAMP. Our lamps are the best that can be procured; made of first-class galvanized iron and finished in keeping with the high quality of the Cornell machines. They are of sufficient capacity to burn twenty-four hours in any climate or weather, and being fitted with brass collars, are certainly a superior incubator lamp from every point of consideration.

SENSITIVE THERMOSTAT. The finely adjusted automatic aluminum thermostat hangs in the space just above the eggs. This original and ingenious piece of mechanism provides prompt and positive regulation of the temperature of the egg chamber. Nothing can possibly get out of order about this regulator.

BEST BY TEST. Buy a pair of Cornell machines and let them speak for themselves. Subject them to the severest tests and accept their actual testimony in operation. We guarantee satisfaction.



NO. 1 (108-EGG) CORNELL INCUBATOR.

We buy the Cornell Incubators and Brooders in carload lots, and can fill orders the day received.

Three Important Features

THE REGULATOR, THE HEATER, THE GUARANTEE.

50c Book Free

THE CORNELL BOOK ON ARTIFICIAL INCUBATION AND BROODING.

Treating on these questions from a series of the most carefully-conducted experiments, requiring months of patient and expensive laboratory work, by skilled physicists connected with the Cornell Company.

This book is the latest and most up-to-date work on the subject yet published. It is an indispensable guide of great value to anyone interested in poultry raising. Fully illustrated, showing the egg during process of incubation at eighteen different periods, from lithographic reproductions, very plainly illustrating in natural colors the embryo chick, together with a very complete explanation, during the whole process of incubation.

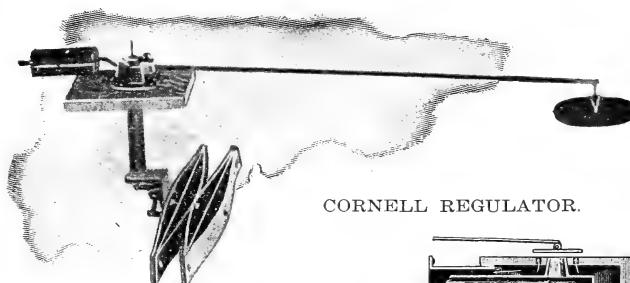
The manufacturers of many incubators now on the market cannot themselves give correct rules—governed by nature's laws—for operating them. Too many manufacturers are not inventors. Their machines are copies—stolen ideas; in other words, an unsuccessful imitation.

Cheap machines, either incubators or brooders, are not practical. They are an unprofitable and expensive investment to the purchaser. The manufacturers cannot give profitable or satisfactory rules for operating them, because the machines are not capable of being operated successfully.

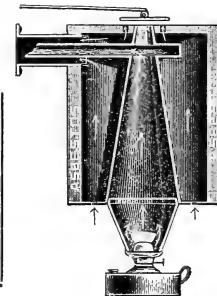
The Cornell Book on Artificial Incubation and Brooding is the latest and most reliable authority on incubation and brooding ever published.

It explains fully all points concerning the operation of an incubator or a brooder, telling the operator what to do, as well as what not to do, during the whole period of incubation.

This valuable book is sent free to every purchaser of a Cornell Incubator or Brooder. Price of book alone, post-paid, 50c.



CORNELL REGULATOR.



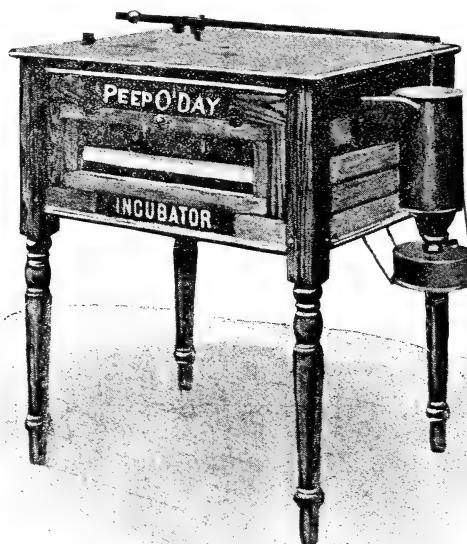
CORNELL HEATER.

GUARANTEE

We guarantee that the Cornell Incubators will be satisfactory to the purchaser. If not found so, they may be returned within 60 days from date of purchase, charges prepaid, and in good condition, and cash will be refunded.

Buy of us and be protected.

No hot water tanks in the Cornell to leak.



NO. 1 (108-EGG) PEEP O' DAY INCUBATOR.

Peep O' Day Incubators

The heater, lamp, regulator, thermometer, egg tray, nursery, etc., is just the same in this Incubator as in the Cornell; in fact, this is the Pan-American model of the Cornell Incubator. To save mistakes and confusion in filling orders and after the Cornell Incubator Company bought out the Peep o' Day Brooder Factory, the name of this machine was changed to Peep o' Day, the same as the Brooders.

The greatest difference in these machines is in the construction and finish. It does not have a table top or compound door, but we would like to impress upon you mind the fact that the Peep o' Day Incubators are finished in a much superior manner to the other Incubators, especially those that sell at the same price. These incubators, like the Cornell are hot air machines

(no tanks to spring leaks and spoil the eggs). The regulation, heating and ventilation are perfect.

We have sold many Incubators, but everything considered, we have never had such bargains to offer as these Peep o' Day Incubators. They are equal to any incubator manufactured, with the exception of the Latest Improved, Cabinet-Finished Cornell. We have tested these machines, here in our store, under trying conditions, and they have proved a great success.

We have just received a large carload of these Incubators and Brooders and expect to sell them and several more carloads before another season passes.

We feel that just as soon as these excellent hatchers are introduced among Western Poultrymen, that our sales will rapidly increase. See prices above.

The Cornell Company's Handsomely Illustrated

Catalog and Poultrymen's Guide sent free on request.

Peep o' Day Brooders

We venture to say that never before in the history of the poultry world was there a combination permanently consummated that has been so satisfactorily appreciated as the Peep o' Day Brooders and the Cornell Incubators. It is a pleasure for us to state that we have been successful in securing the Pacific Coast Agency, so that the Western poultry raisers can get the benefit of this combination.

Two years ago the Cornell Incubator Manufacturing Company purchased the Peep o' Day Brooder business outright. Much description of these brooders is hardly necessary, from the fact that the Peep o' Day goods have been on the market since 1892, and have met with hearty approval from the very first. No other brooder has ever been placed on the market that has been, or is today, copied after as is the Peep o' Day.

The Peep o' Day is today used exclusively by the largest and most popular, as well as successful, poultrymen in the United States.

The Cornell Incubators will not only hatch the largest per cent of the fertile eggs, but will bring out the strongest and healthiest chicks ever artificially hatched, and the Peep o' Day brooders will take care of them in a manner nearer nature than any appliance now on the market. **This combination stands without a peer.**

THE LAMP.

We have the safest, most scientific and successful Brooder Lamp made. The illustration of the lamp and rear of the No. 1 Brooder will convey some idea of its principle. The lamp chamber floor is some three inches above the ground, so that when the lamp is in place, the oil tank is in the lower chamber, where it is exposed to a current of cold air passing through this lower chamber to supply air to the burner. The slide forms the lamp chamber door and the wick arbor is extended to the outside, a mica light making it very convenient to attend to and adjust the flame without disturbing the lamp. The burner is the most perfect we have been able to obtain, and it carries a flame that is equal to a steady gas flame. A chimney on a brooder lamp often causes it to smoke. We have discontinued the use of chimneys in our Brooders, and the results have been far more satisfactory. The oil tank is one solid casting, which prevents all vibration. To sum up, we guarantee that we have a lamp that is strictly safe, that the oil tank will never leak, that it will not consume more than one-half the oil of any brooder its size, and that smoking, bothering with water pans or danger from fire is entirely overcome.

THE HOVER, VENTILATION AND HEATING.

In the Peep o' Day Brooders we have the most perfect system of heating and ventilating. The large circular hover with its side curtains of felt is placed directly over the brass dome under which is the lamp. The fresh cold air comes in between the double floors, and passes over the heater which warms it, and enters under the hover proper and is forced down upon the back of the little chicks, just as with the old hen. The cold air entering the heater is drawn in, in an indirect way, so that the drafts outside the Brooder can not change the force of the current. This is a very important feature, especially in the outdoor Brooders. No brooder can stand the amount of wind and hold so even a temperature as the Peep o' Day.

The hover has an automatic ventilator and by simply turning it a little, the heat underneath can be easily regulated. The thermometer, the lower part of which hangs at about the level of the chicks' backs, is in plain sight so that you can see the temperature under the hover, at a glance.

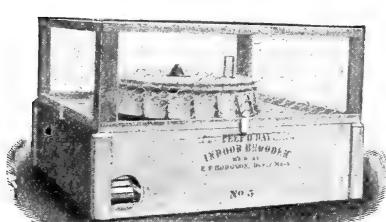
The dome of the heater is made of heavy brass and the upper part of cast iron. This is by far the finest and most substantially constructed heater and hover we have ever seen.

All the Peep o' Day Brooders, except the No. 0, have the same style lamp, heater and circular hover, which prevent crowding into corners and obviate danger of overheating.

There is positively no danger of fire with the Peep o' Day Brooders, and after you have had a chance to examine them, we are sure you will agree with us that they are by far the finest constructed Brooders, all points considered, of any on the market, and at the prices we offer them, they are the cheapest.

PRICE LIST, PEEP O' DAY BROODERS.

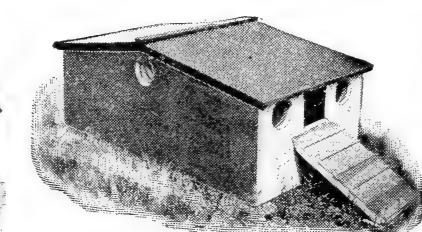
	Size.	Price.
No. 0. Outdoor for 50 to 75 chicks	2x4 ft.	\$ 8.00
No. 1. Outdoor for 75 to 100 chicks	3x3 ft. sq.	12.50
No. 2. Outdoor for 100 to 150 chicks	3x5 ft.	14.00
No. 3. Outdoor for 75 to 100 chicks	2x4 ft.	9.50
No. 4. Indoor for 100 to 150 chicks	3x3 ft. sq.	10.00
No. 5. Indoor(wire top), for 75 to 100 chicks.	3x3 ft. sq.	8.50



NO. 5 INDOOR (Wire Top).



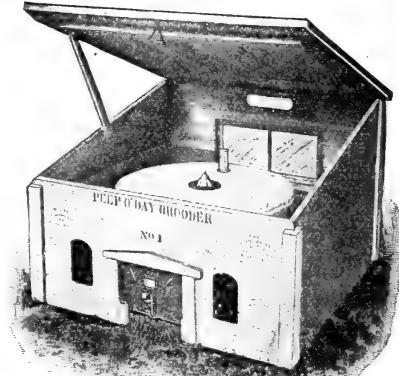
NO. 4 INDOOR.



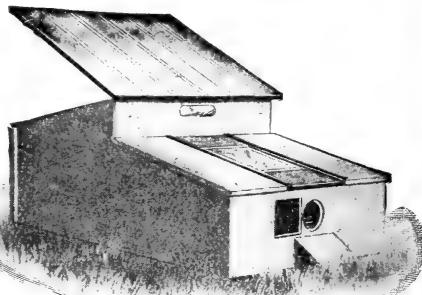
NO. 0 OUTDOOR.



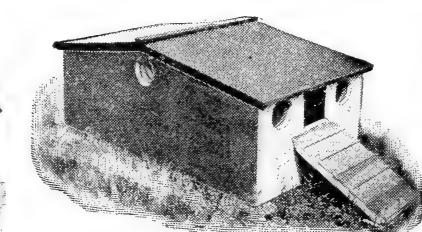
BROODER LAMP, COMPLETE.



REAR VIEW NO. 1 BROODER,
Showing Lamp and Hover.



NO. 2 OUTDOOR.



Space will not permit us to give complete description of each brooder, but we will gladly send fully illustrated catalog on request.

Still in the Lead

Mann's Green Bone Cutters

Still in the Lead**OTHER MAKES COME AND GO, BUT THE MANN RETAINS ITS PLACE.**

If you want an old reliable machine—one that has established a reputation in the yards of practical poultrymen—buy a Mann's.

If you want a new machine—one that has every late improvement, one that is really "ahead of the times"—buy a Mann's. It does the work with the greatest ease. It makes every hen a paying hen. Try it and see.

The Mann's is the only machine which has a self-governing feed, which produces a uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength, and it never requires more power than you set it for.

The Mann's cuts any bone and all adhering meat or gristle, and never clogs or stalls.

The Mann's is, in short, an ideal bone cutter. WE BELIEVE THAT IT IS A BETTER MACHINE, ALL POINTS CONSIDERED, THAN THAT PRODUCED BY ANY OTHER MANUFACTURER.

Try one for yourself, and if you are not satisfied you can have your money back. Could you ask more?

No. 5. (See cut.)

Has four knives, large cylinder, and has the latest patent automatic governing spring feed, which makes it one of the best low-priced bone cutters ever offered. Can furnish with crank, balance wheel, or mounted on iron stand.

No. 7. (See cut.)

The New No. 7 is mounted on strong iron stand, and has patent automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard anti-clog device, heavy balance wheel and other improvements.

No. 7½.

Adapted to run either by hand or by power, without any change.

The particular advantage of the 7½ is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. Thus, it is always ready for use. It is recommended even if you have no power at present, for should you get power in the near future, you need be at no further expense. There is a large class that need a power bone cutter, who cannot really afford to pay the price of the No. 11 or 12. The No. 7½ will appeal directly to this class. It has all the improvements. It meets a long-felt want.

No. 11.

Intended for large flocks when the machine must be run by hand a portion of the time. It is really a semi-power and semi-hand or combination machine, and as such has its place. The No. 11 is exactly the same as No. 9 with the power parts added. It has all the late improvements, special feed, anti-clog, open cylinder, tight and loose pulleys, etc. Capacity, 100 lbs. per hour.

No. 12 Power. (See cut.)

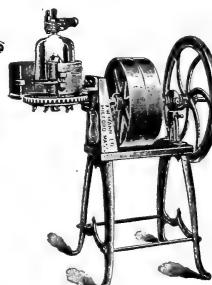
This machine deserves more than passing notice. It costs but \$4.00 more than the semi-power, or No. 11, yet is heavier, stronger, better and far more durable. It is strictly a power machine, and full of business from top to toe. Remarkable for strength, capacity, simplicity, economy and convenience. It has all the new patented improvements. In addition, this cutter has a grab clutch, an important and novel device by which it can be started and stopped instantly. No slipping of belts. The balance wheel runs all the time with the pulley, consequently the clutch operates instantly. Capacity, 120 to 150 lbs. per hour. Horse power required, 1 to 2. Just the machine for marketmen, extensive breeders, or any one who has large quantities of bone to cut.

Price List of Mann Bone Cutters.

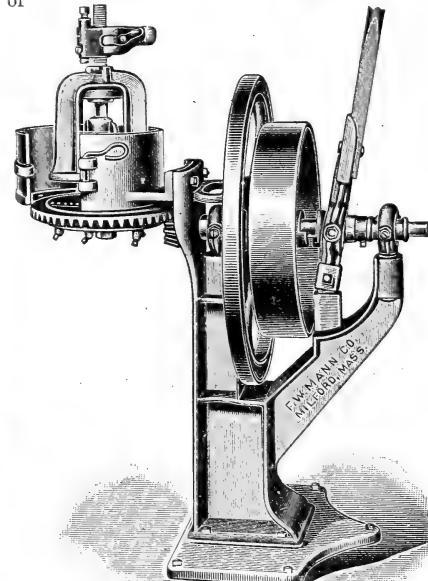
New Styles.	Price.	Weight.
No. 5 C (with crank handle)	\$ 7.75	30
No. 5 B (with balance wheel)	10.00	55
No. 5 B M (B. W. and iron stand)	13.00	80
No. 7 (B. W. and iron stand)	14.50	107
No. 7½ (hand or power)	19.50	150
No. 9 (B. W. and iron stand)	21.00	163
No. 11 (power machine)	30.00	215
No. 12 (power machine)	34.00	260
No. 15 (power machine)	66.00	420
No. 4 B (with balance wheel)	12.00	75
No. 4 B M (B. W. and iron stand)	14.00	110



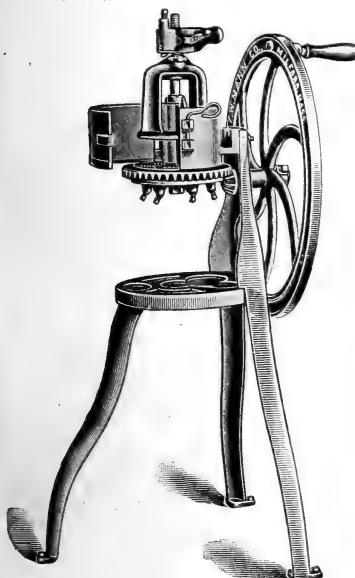
NO. 9.



NO. 11.

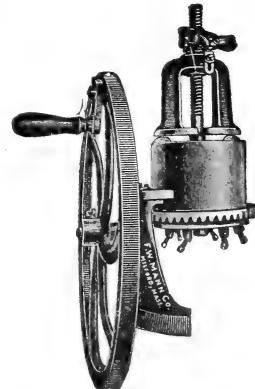


POWER CUTTER NO. 12.



MANN'S NEW NO. 7.

**MANN'S HANDSOME
40-PAGE CATALOG**
Tells all about the different
style cutters and contains
much valuable information.
Free on request.

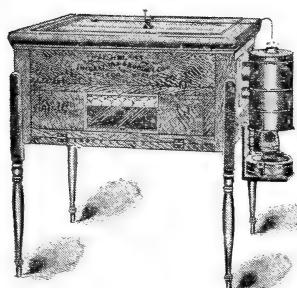


NEW NO. 5 B.

It is economy to buy the best—especially when the best costs no more than untried machines.

St. Helens Incubators and Brooders

ST. HELENS INCUBATOR.



ST. HELENS INCUBATOR.

In the St. Helens Incubator is combined all the good qualities to be found in both hot air and hot water incubators, and the objection and disadvantages of neither. In the 1903 Model Incubator, we offer a hatching machine that is mechanically perfect, with superior finish, the simplest and most economical and an excellent hatcher. This machine is fitted with copper tank, red cedar and white fir case, water regulator and safety lamp. We sold a great many of these incubators last season and they have many friends.

Prices All Complete:

1903—75-Egg Capacity Incubator	\$16.00; cut price, \$14.00
1903—100(120)-Egg Capacity Incubator	20.00; cut price, 18.00
1903—200(230)-Egg Capacity Incubator	30.00; cut price, 25.00
1902—60-Egg Capacity Incubator	12.00; cut price, 11.00
1902—100-Egg Capacity Incubator	17.00; cut price, 15.50
1902—150-Egg Capacity Incubator	24.00; cut price, 21.00

ST. HELENS BROODER.

The St. Helens Brooders are claimed to be the finest constructed and most successful Brooders on the market—machines that are especially adapted to raising chickens in this climate—containing double floor space and superior in other particulars.

For a fully detailed description of the St. Helens Incubators and Brooders, send to us for the St. Helens Complete 74-page Catalog, which is fully illustrated. Sent free on request.

Both indoor and outdoor Brooders are the same in the matter of heating; forced ventilation and the circular-hover system. As soon as the heater is warmed by the lamp, a circulation of air begins. Pure air that is free from all gas is drawn from the exterior, heated to the proper degree, and forced to the top and outer edges of the hover and evenly over the backs of the chicks, being slightly moistened as it passes around and over the outer dome of the heater.

The circular-hover system and method of applying heat prevents the chicks from crowding or overheating, as all parts of the heater are circular, and, if the temperature under the hover becomes warmer than they like, the chicks can move into the brood chamber proper, where the temperature is several degrees cooler.

Prices All Complete:

1903—Indoor Brooder, 100 to 150 chicks	Cut price, \$ 9.50
1903—Double Indoor Brooder, 200 to 300 chicks	Cut price, 18.00
1903—Outdoor Brooder, 100 to 150 chicks	Cut price, 14.00
1902—Indoor Brooder	Cut price, 7.20
1902—Outdoor Brooder	Cut price, 10.80



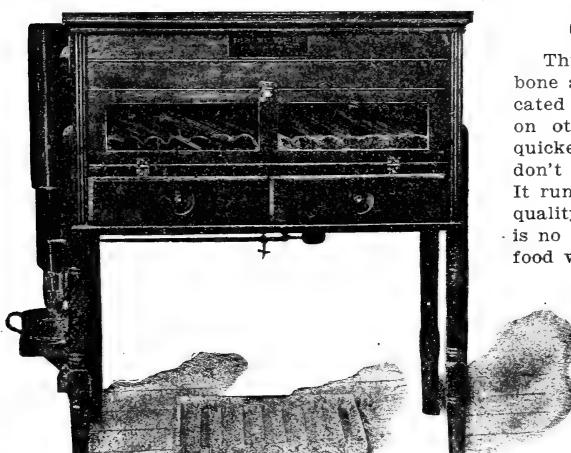
INDOOR BROODER.

THE HUMPHREY Green Bone and Vegetable Cutter

This machine is ready when you are ready—drop in a bone and start cutting without the adjusting of the complicated mechanism and delicate springs and "fixings" used on other machines. The Humphrey is the simplest, the quickest, the best. If you don't think so after trying it, don't keep the machine. That's what our guarantee means. It runs so easily, works so rapidly, makes food of such fine quality, that it easily ranks first of all bone cutters. There is no flock so small that a bone cutter used in preparing its food will not pay and pay well.

Price List:

No. 1, hand power..	\$14.00
No. 2, semi-power ..	\$17.50
No. 2½, hand or power ..	\$20.00
No. 4, geared power ..	\$50.00



MODEL 60, CAPACITY 126 EGGS.

Petaluma Incubators and Brooders

Petaluma Incubators have been producing big hatches among us for upward of twenty years. We have had the agency for Oregon for several years and sold hundreds of these machines.

Price List Petaluma Incubators.

Model 49, capacity 54 eggs	\$10.00
Model 60, capacity 126 eggs	20.00
Model 61, capacity 216 eggs	27.00
Model 62, capacity 324 eggs	35.00

Price List Petaluma Brooders.

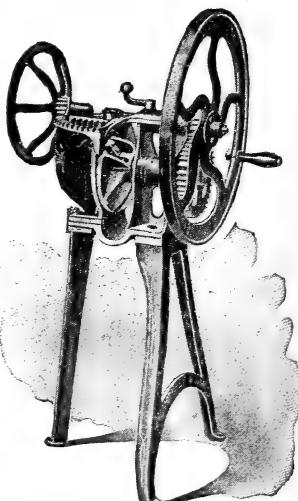
Indoor—Model 18, capacity 200 chicks	\$10.00
Hot Water—Model 17, capacity 200 chicks	15.00

If interested in these machines kindly send for the Petaluma Illustrated and Descriptive Catalog. Sent free on request.

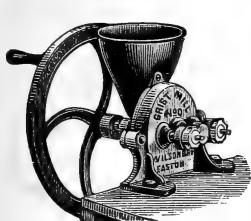
If you are interested in this cutter and want a fully illustrated and descriptive catalogue, write us and we will send one of Humphrey's Complete Catalogues free of charge.

Write for price.

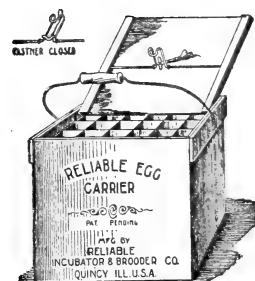
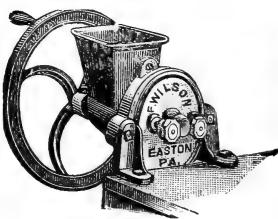
Freight paid to your station.



NO. 1 HUMPHREY.



Wilson Feed Mill No. 0. Wilson Feed Mill No. 1.

**THE WILSON DRY BONE MILL.**

No. 1 is a practical mill, grinding all kinds of shell, crockery, grit, burnt or dry bone, feed, etc. Instantly adjusted to grind coarse or fine. Weight 33 pounds. Diameter of hand-wheel, 20 inches. Price, \$5.50.

NO. 0 WILSON'S.

Is a family grist mill in itself, especially made for grinding graham, flour or corn meal, for table use. It can also be adjusted for cracking grain if desired. Weight, 30 pounds. Price, \$5.50.

MANN'S CAST IRON MORTAR.

For breaking glass, crockery ware, oyster shells or other dry substances for poultry. Weight, 33 pounds; height, 12 inches, 9 inches square; pestle, 4 feet long. Price, \$3.50.

MANN'S SWINGING FEED TRAYS.

For water or for feed. Fowls cannot scratch dirt into it, or feed out of it, nor roost on it; yet will not tip over or spill the food out. Price, 18-in., \$1.00; 27-in., \$1.25; 36-in., \$1.50.

MANN'S CLOVER CUTTER.

Made entirely of iron and steel, cannot warp or shrink. It cuts any kind of hay or clover, either dry or green, and more rapidly than any other made. Each revolution of the balance wheel produces twelve cuts, which is four times as fast as the ordinary clover cutter. Do not buy a clover cutter until you have seen the Mann's. Price, \$9.50; mounted on iron stand, \$12.00.

MANN'S CORN SHELLER.

Price, \$3.00.

BLACK HAWK CORN SHELLER.

Price, \$2.50.

STEARNS CLOVER CUTTER.

Quite small, but worth the price. Not mounted. Price, \$3.00.

WIRE HEN'S NEST.

Strongly made. Very durable. Fasten to the wall with two heavy screws. No harbor for vermin. Price, 25c. each.

If interested send for our complete Poultry Supply Catalog.

Reliable Poultry Punch.

For marking the web between the toes. The very best and handiest marker. By mail, 35c.

RELIABLE EGG CARRIER.

Each and every one of our egg carriers is nicely painted and is equipped with the very best fillers. Patent top and sling handle. Holds 12 dozen. Price, 75c. each.

EGG TESTERS.

RELIABLE. Best lamp tester made. Will fit any No. 2 burner. Price, 50c., post-paid.

HAR-ING'S PERFECTION. For sunlight. Price, 60c., post-paid.

ROOST HANGERS.

(See cut.) Fill the cup with lice killer or coal oil. Poultrymen should not be without them. Will keep the birds free from vermin. Price, 10c.; per doz., \$1.00.

DRINKING FOUNTAINS.

STANDARD (Stone). Keeps water cool. Price, $\frac{1}{2}$ gal., 25c.; 1 gal., 40c.

SANITARY (Stone). Made in two pieces. Easy to keep clean. Price, $\frac{1}{2}$ gal., 35c.; gal., 50c.

RELIABLE. Made of heavy galvanized iron. We claim that these are an improvement on all other styles of fountains now on the market. Price, $\frac{1}{2}$ gal., 50c.; gal., 65c.

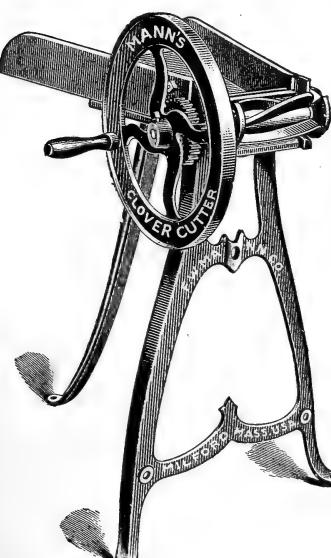
P. S. CO.'S GALVANIZED FOUNTAINS. Neatest, best and cheapest. Small, 25c. each; medium, 35c. each; large, 50c. each.



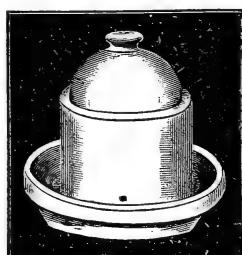
Nest Baskets.



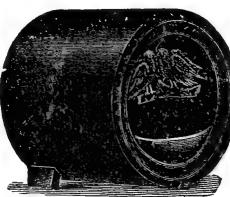
Reliable Fountains.



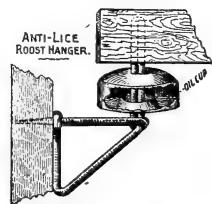
Mann's Clover Cutter, Mounted.



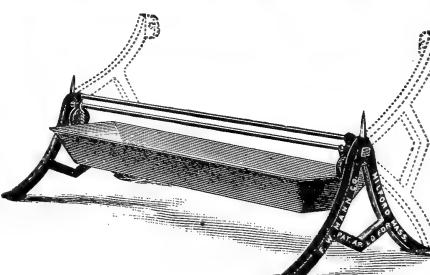
Sanitary Fountains.



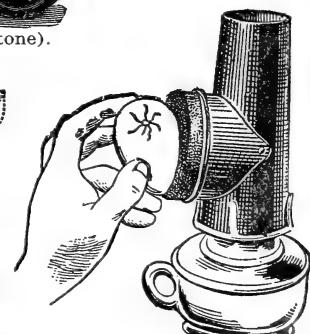
Standard (Stone).



Roost Hangers.



Mann's Feed Trays.



Egg Tester.



Smith's.



Eclipse.



Maughlin's.

LEG BANDS FOR POULTRY.

In ordering bands state what class of birds you want them for, and whether male or female.

CLIMAX. Prices, post-paid, per doz., 20c.; 25 for 40c.; 50 for 60c.; 100 for \$1.00.

ECLIPSE. Prices, post-paid, per doz., 20c.; 25 for 35c.; 50 for 60c.; 100 for 85c.

DOUBLE CLINCH. A new band; very safe; no exposed corners, ends or loops. Prices, post-paid, per doz., 20c.; 25 for 35c.; 50 for 60c.; 100 for 85c.

MAUGHLIN'S SEALED. You simply pass it around the bird's leg and by pressing the two ends together, lock it. Prices, by mail, post-paid, 12 for 25c.; 25 for 50c.; 60 for \$1.00; 100 for \$1.50.

SMITH SEALED. Of aluminum and so constructed that by simply crushing a soft rivet they are sealed on the bird's leg and must be destroyed to be removed. By mail, post-paid, 12 for 30c.; 25 for 50c.; 60 for \$1.00; 100 for \$1.50.

SEALING TOOLS. For sealing the bands. Plain jaw, 50c.; lettered jaw, 75c.; postage, 10c. extra. Sample band, and kind, sent for 2c. stamp.

AUTOMATIC FEED BOX.

Made of heavy galvanized iron. Soon pays for itself in preventing waste of feed. Just the article for keeping grit, shells and charcoal before the fowls at all times. Price, 75c. each.

WIRE-COVERED FEEDING TROUGH.

New and decidedly convenient, especially for young chicks. Price, 35c.; by mail, 50c.

CANFIELD EGG-SHIPPING BOX.

This box can be packed, closed and addressed in less time than any similar device on the market. This is by far the neatest package for shipping eggs. Its use shows that you are up-to-date, and it makes a good impression on your customers. Your label on the box is always conspicuous, and will thus carry your advertisement wherever it goes.

PRICES:

No. B1, 15-egg size	25c. each; per doz., \$2.40
No. B2, 30-egg size	35c. each; per doz., \$3.25
No. B3, 50-egg size	50c. each

EYRIE EGG BOXES.

Very much like the Canfield, except that it has an automatic lock. When the top is closed and handle put in, the box is locked. Prices same as Canfield.

NEST EGGS.

MEDICATED. Used as nest eggs, and also to keep the lice away. Three for 25c., post-paid; dozen, 60c.; by mail, 90c. CHINA. 35c. dozen; by mail, 55c.

INSECT POWDER BLOWER.

For use in applying insect powder. By mail, 25c.

PILLING'S CAPONIZING TOOLS.

Complete outfit with instructions. \$2.50, post-paid.

"TRIUMPH" CAPONIZING SET.

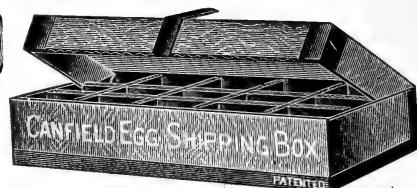
Pronounced by experts to be the best set of tools on the market. Price, post-paid, complete set and book of instructions, \$2.50.

HYDRO 'SAFETY LAMP.

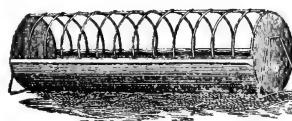
OAKES. For small incubator or brooder. Made especially for incubators and brooders. Entire burner and reservoir made of brass. No. 1, price, \$1.00. For large incubator or brooder. No. 2, price, \$1.50.



Climax.



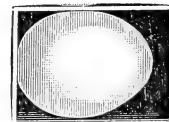
Egg Shipping Boxes.



Feeding Trough.



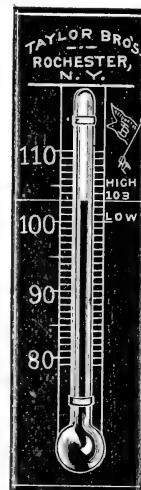
Feed Box.



Nest Eggs.



Oakes Hydro Safety Lamp.



Metal Back Thermometers.

THERMOMETERS.

Tested for Incubators.

ALL GLASS	Post-paid, \$0.75
METAL BACK, for St. Helens	Post-paid, 1.00
BEVEL EDGED, japanned	Post-paid, .60

For Brooders.

ST. HELENS, tested	Post-paid, .50
TIN BACK, 7 inch	Post-paid, .25
CABINET, wood back	Post-paid, .30
PEEP O' DAY STYLE	Post-paid, .65

REGULATORS.

Compound Wafer Regulator, complete (for either incubator or brooder). Price, \$1.50.

LAMP WICKS.

For brooder or incubator lamps. Doz., 25c., post-paid. We have large supply of extras for Stockton and Petaluma machines.

Wire Netting for Poultry Runs and Trellises, Etc.

No. 20 Wire, in rolls 150 feet long, in the following widths:

	12 in.	18 in.	24 in.	30 in.	36 in.	42 in.	48 in.	60 in.	72 in.
2-inch mesh	\$0.80	\$1.15	\$1.60	\$2.00	\$2.25	\$2.70	\$3.00	\$3.75	\$4.50
1½-inch mesh	1.10	1.55	2.15	2.75	3.30	3.85	4.25	5.50	6.30
1-inch mesh	2.00	2.80	3.60	4.50	5.65	6.30	7.20	8.65	10.50
Short lengths, 2-inch mesh, 1c. square foot; 1½-inch mesh, 1¾c. square foot; 1-inch mesh, 2½c. square foot.									

Prices subject to change without notice.

PORTLAND SEED CO.

High Grade Poultry Foods



GRANULATED BONE.

The bone we offer is selected, hard, white, raw bones, and of a superior quality, an indispensable food for laying hens.
10 lbs., 25c.; 100 lbs., \$1.75.

DIAMOND GRANITE CRYSTAL GRIT.

Every poultry raiser should keep a supply of this grit in each pen. Fowls of all kinds must have hard, sharp grit of some kind with which to grind their food after it passes into the gizzard, otherwise they will not do well. Hundreds of young chicks die annually from no other cause than want of good grit. Made in two sizes, chick and hen size. We always send hens' size unless otherwise ordered.
5 lbs., 10c.; 100 lbs., \$1.50.

STANDARD POULTRY GRIT.

Not equal to Crystal Grit. 100 lbs., \$1.00.

CHARCOAL.

Our charcoal is made from hard wood, granulated; a good thing for bowel trouble; sour crop unknown where this is used; a health preserver.
1 lb., 10c.; 10 lbs., 80c.

OYSTER SHELLS, CRUSHED.

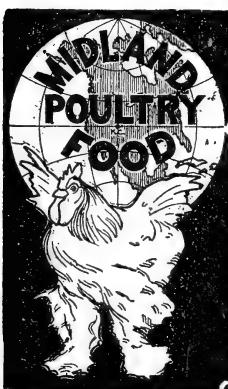
We offer nice, clean stock, free from dust and waste. These should be within reach of your hens at all times. In two sizes, coarse and fine. 5 lbs., 10c.; 100 lbs., \$1.50.
Oyster shell, "Western." 5 lbs., 10c.; 100 lbs., \$1.35.

CLAM SHELLS, CRUSHED.

Used the same as oyster shells; harder and sharper.
5 lbs., 10c.; 100 lbs., \$1.50.

CLOVER MEAL.

The best substitute for green food for winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.
10 lbs., 50c.; 100 lbs., \$4.00.



Midland Poultry Foods

Scientifically Prepared and Properly Balanced Rations for Poultry.

- 1—Nursery Chick Food.
- 2—Growing Chick Food.
- 3—Fattening Chick Food.
- 4—Egg and Feather Producing Food.
- 5—Nursery Duckling Food.

Complete and ready to feed. Needs no green bone or other accessories. There is not and never has been anything on the market to compare with it. Thousands of poultrymen are using it and it is an acknowledged standard today. Random and haphazard feeding is no longer profitable. Try this feed and be convinced.

34-page Booklet, "Science of Poultry Feeding," free on request.

GRENADIER MEAL.

The greatest food on earth for fattening poultry. Send for book, "Poultry Fattening Perfected." It tell all about this machine and how to use Grenadier Meal.

PRICES:
2-bushel sacks, \$2.25; 5-sack lots at \$2.15 per sack;
quarter sacks, 65c. All brands sold at these prices,
except No. 4; special price of \$1.90 per sack.

Diamond Chick Feed

This chick feed of ours is just such feed as the old hen would find for her babies if she had free range on a farm. That's why it is so successful. By using DIAMOND CHICK FEED you are giving the chicks just what nature intended they should have, a food composed of over twenty different ingredients—cracked grains, small seeds, grit, bone, dried sweet meat, charcoal, etc., mixed in the right proportion to produce a quick and profitable growth without loss. It's so convenient, so handy, always ready for use, and you can raise so many more chicks by feeding it, that it is the cheapest feed you can buy. A trial is all we ask. Look for our "Diamond Brand." There are several substitutes on the market. Prices: 5 lbs., 25c.; 12 lbs., 50c.; 25 lbs., \$1; 50 lbs., \$1.85; 100 lbs., \$3.50.

DIRECTIONS FOR FEEDING DIAMOND CHICK FEED.

This is a complete food and nothing else need be fed. For the first day or two this food may be placed upon a board or in a shallow pan or dish, but as soon as the chicks are a few days old it should be scattered in an inch or two of chaff so that they have to scratch for it. This will give them good exercise and keep them busy. No drooping wings, weak legs or bowel trouble when you feed Diamond Chick Feed.



WE EAT DIAMOND CHICK FEED.

BEEF SCRAPS.

A highly concentrated food. It is cooked meat, dried and ground. Very rich in protein. It should be mixed with the soft food.
10 lbs., 40c.; 100 lbs., \$3.50.

BLOOD MEAL.

The most highly concentrated egg producer on the market. To be fed in soft food. Unexcelled as a food for forcing growth of chicks or as an egg food.
1 lb., 10c.; 10 lbs., 60c.; 100 lbs., \$4.00.

MEAT MEAL.

No hides or tankage in our meat meal, but, as its name implies, meat, cooked, dried and ground; unexcelled for egg production.
10 lbs., 25c.; 100 lbs., \$2.00.

TOBACCO DUST.

For use in dust baths and nests. A cheap and effective exterminator of lice.

Per lb., 10c.; 3 lbs., 25c.

MIDLAND CRAMMING MACHINE.

For use in fattening poultry.

Price, \$12.00.

Lee's Foods and Remedies

We are sole agents for this section and buy them by the carload.

LEE'S LICE KILLER. The best liquid on the market for killing lice, mites and other vermin on poultry and hogs. Penetrates the feathers of the fowls on the roosts and kills all body lice.

Prices: Qt., 35c.; $\frac{1}{2}$ gal., 60c.; gal., \$1.00; 5 gals., \$4.00.

LEE'S BEST CONDITIONER STOCK FOOD contains spices, roots, herbs and salts which all animals need daily in small amounts to promote good health, digestion and assimilation.

Put up in 25c. and 50c. pkgs.; 25-lb. pails, \$2.50.

LEE'S EGG MAKER. It will make hens lay, chicks grow, and keep them all in healthy, vigorous condition. The cost of feeding is very small, about 1 cent per feed for 50 fowls, which expense is more than paid for by an increase of one egg per day.

2 $\frac{1}{2}$ -lb. pkg., 25c.; 25-lb. pail, \$2.00.

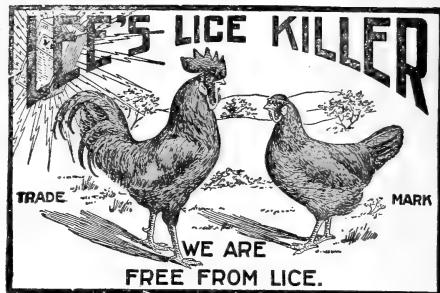
LEE'S HOG REMEDY cures all diseases of hogs and keeps them healthy Pkg., 75c.; 25-lb. pail, \$2.00.

LEE'S WORM POWDER for horses, cattle, sheep and hogs; safe and sure in results. Pkg., 25c.

LEE'S INSECT POWDER. A very fine powder for use on stock and poultry. Pkg., 25c., by mail, 35c.

LEE'S MIXED STOCK SALT. Every breeder should have a supply of this salt. 25-lb. sk., \$1.25; 100 lbs., \$4.

LEE'S CARBOLIC SHEEP DIP. For lice, ticks, mange, itch or scab, on cattle, sheep and hogs. One gallon of the dip makes sixty to one hundred gallons of dipping solution. $\frac{1}{2}$ -gal. can, 60c.; gal., \$1; 5 gals., \$4.



LEE'S PEERLESS GOPHER KILLER. For killing gophers, squirrels, etc. Sure death. Will soon clean out these pests. Quart can, 75c.

LEE'S GEMOZONE—Liquid. 12 oz., 50c.

LEE'S GEMOZONE—Tablets. Pkg., 50c.

LEE'S PEERLESS BUG KILLER. Pkg., 25c.

LEE'S HICKORY SMOKE EXTRACT. 12 oz., 35c.; 32 oz., 75c.

Send for Lee's 34-page book that tells all about his goods, and contains other valuable information. Sent free.

Grosbeck's Preparations

EGG PRODUCER AND CONDITIONER. You should never be without it.

Large Pkg., 50c.; medium, 25c.; 50-lb. box, \$3.75.

LICE KILLER. Very effective.

Price, qt. cans, 35c.; $\frac{1}{2}$ -gal. cans, 60c.; 1-gal. cans, \$1.

HEAVE POWDER. A most effective remedy.

Price, per pkg., 50c.

HORSE AND CATTLE POWDER. Excellent.

Price, per pkg., 25c.; large pkg., 50c.

Avenarius Carbolineum

The famous German wood preserver and insecticide. Paint or spray your chicken houses, hog pens, stables, sheds, etc., with Avenarius Carbolineum, to permanently destroy all poultry and other vermin and preserve your building from rot and decay.

Prices, quart can, 50c.; gal., \$1.50.

In 5 or 10-gallon cans or by the barrel, write for special prices.

Lambert's Lice Remedies

DEATH TO LICE. 5 oz., 10c.; by mail 17c.; 15 oz., 25c.; by mail 40c.; 48 oz., 50c.; by mail, \$1.10, 100 oz., \$1.

DEATH TO LICE SPECIAL. Dissolve in kerosene.

4 oz., 10c.; 16 oz., 25c.; 1c. per oz. extra for postage.

DEATH TO LICE OINTMENT. For lice on chicks, scaly shanks on fowls of any kind.

1 oz., 10c., post-paid; 4 oz., 25c., post-paid.

FLOOD'S ROUP CURE. Safe and sure. Price, 50c.

CONKEY'S ROUP CURE. For roup and canker in poultry and pigeons.

Price, 50c.

STURTEVANT'S ROUP PILLS. Box, 25c., post-paid.

ROUP SYRINGE. Price, 10c.; by mail, post-paid, 15c.

DIAMOND OINTMENT. For head lice on little chicks.

Boxes, 10c. and 25c. each, post-paid.

HARDING'S SIX-HOUR LICE KILLER. Just what you want for lice on little chicks, setting fowls, etc.

Sold under a positive guarantee.

18-oz. pkg., 25c.; post-paid, 40c.

CROWLEY'S POULTRY FOOD. Cures all diseases of poultry and makes eggs.

50c. size, 35c.; \$1.00 size, 70c.



KNOCK THE FLIES.

Use Child's "So-Bos-So, Kilfly" on your stock. It means money in your pocket, for cows give one-third more milk and horses do better, and on less feed, when protected from flies. It requires only a few seconds to apply it; it costs less than $\frac{1}{2}$ c. a day per head. You cannot afford to be without it. Apply with a cloth, sponge or hand. Sprayer listed on page 78. Write today for 20-page booklet.

SO-BOS-SO.

Put up in 1-gallon sealed cans only. Price, \$1.50.

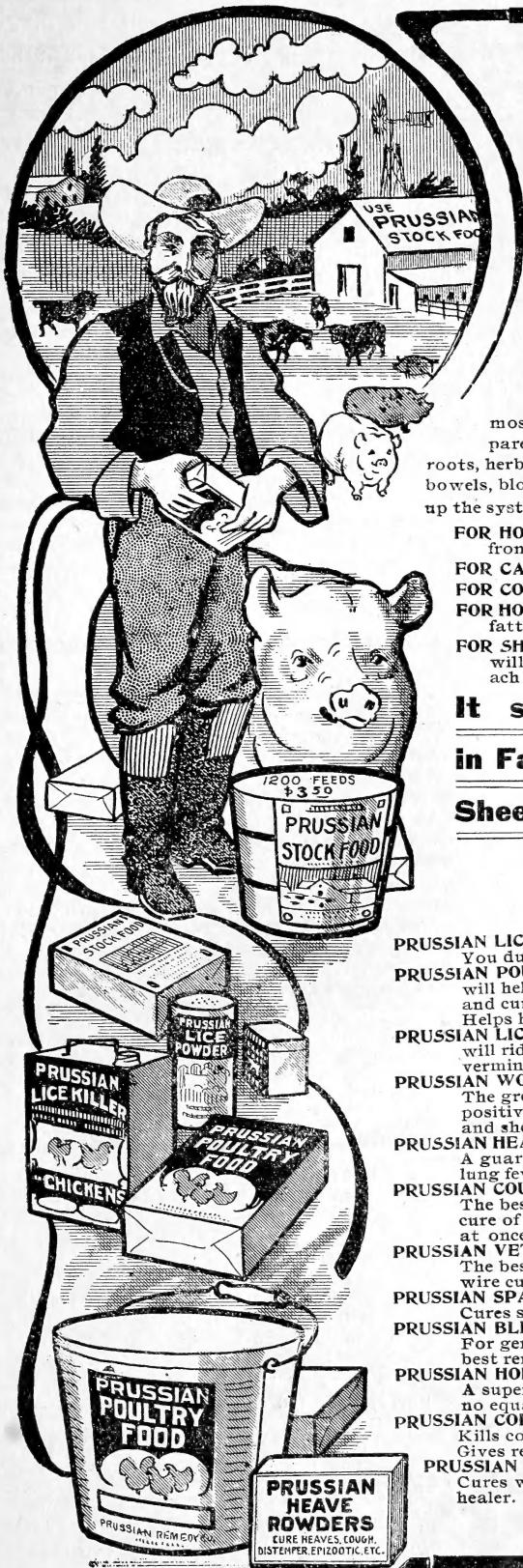
Order a can with your other goods and be ready for the flies when they come.

Sprague's Fly Bouncer.

$\frac{1}{2}$ gal., \$1.00; per gal., \$1.50.

Lee's Flyo-Curo.

We sell thousands of cans of this fly spray every season, and it gives good satisfaction. Qt., 50c.; $\frac{1}{2}$ gal., 75c.; gal. \$1.25.



Valuable Articles for Farmers and Stock Owners

THE PRUSSIAN STOCK FOOD AND REMEDY CO., OF ST. PAUL, MINN., put up a complete line of Veterinary Remedies, which have won their way into the confidence of the public solely because they possess unusual merit. Following is a complete list with price and form in which they are sold:

PRUSSIAN STOCK FOOD.

The great conditioner and flesh producer, for horses, cattle, sheep and hogs. It is the most reliable article ever placed on the market. Prepared from absolutely pure ingredients, principally roots, herbs and seeds. It will assist digestion, regulate the bowels, blood and digestive organs, restore appetite, tone up the system and keep the animal in perfect health.

FOR HORSES:—It makes them strong and keeps them free from disease.

FOR CATTLE:—It causes them to lay on flesh and fat.

FOR COWS:—It will increase the flow of milk.

FOR HOGS:—It prevents Cholera, makes them grow and fatten quickly.

FOR SHEEP:—It will keep them in perfect health and they will produce more and better wool. Cleans out Stomach Worms.

It save Time, Feed and Money

in Fattening Hogs, Cattle, Calves,

Sheep, Horses and Mules. . . .

Prussian Stock Food, one cent for three feeds.

3 lb. package, 150 feeds	-	-	50c
7 lb. package, 350 feeds	-	-	\$1.00
25 lb. pails, 1200 feeds,	-	-	\$3.50

PRUSSIAN LICE POWDER.

You dust it on, per can, - - - - - 25c and 50c

PRUSSIAN POULTRY FOOD

will help you take care of your flock. Prevents and cures diseases, such as Cholera, Roup, etc. and Helps hens lay and chicks grow. Per pkge. 25c and 50c

PRUSSIAN LICE KILLER

will rid your poultry of lice, mites and other vermin in a hurry. Per can 50c and \$1.00

PRUSSIAN WORM POWDERS.

The greatest worm remedy on the market. A positive cure for worms in horses, cattle, hogs and sheep. Per package 50c

PRUSSIAN HEAVE POWDERS.

A guaranteed cure for heaves, coughs, colds, lung fever, epizootic, pinkeye, etc. Per package 50c

PRUSSIAN COUGH AND DISTEMPER CURE.

The best remedy made for the prevention and cure of coughs and distemper. Try a package at once. Per package 50c

PRUSSIAN VETERINARY CUREINE SALVE.

The best healer known. Quickly cures barbed wire cuts, wounds, sore shoulder. No scar. Bx. 25c and 50c

PRUSSIAN SPAVIN CURE.

Cures spavin, ringbone, etc. Per bottle 50c and \$1.00

PRUSSIAN BLISTER.

For general use where a blister is needed. The best remedy made. Per box 50c

PRUSSIAN HORSE LINIMENT.

A superior liniment for all general use. It has no equal. Per bottle 25c and 50c

PRUSSIAN COLIC KILLER.

Kills colic or belly-ache in horses and cattle. Gives relief in 20 minutes. Per bottle 50c and \$1.00

PRUSSIAN BARBED WIRE LINIMENT.

Cures wire cuts and all wounds. A wonderful healer. Price 50c

Ask for our Stockman's guide. Its FREE.

PORTLAND SEED CO.

For a small outlay of money you can gain knowledge that has taken others years of study and experience to gain.

BOOKS

Keep yourself "up to date" by reading the latest books from practical men.

ALL BOOKS SENT POSTPAID AT THE FOLLOWING PRICES:

FARM AND GARDEN

Art of Propagation. Jenkins	\$0.35
Alfalfa. Coburn .....	.60
Asparagus Culture .....	.55
Apple Culture, Field Notes. Bailey .....	.80
Basket Making with Raffia .....	.30
Beautiful Flower Gardens .....	.50
Blackberry and Raspberry Culture. Littooy .....	.40
Cabbages, On. Gregory .....	.35
Cabbages, Cauliflower, Etc. ....	.55
Celery for Profit. Greiner .....	.30
Cranberry Culture. J. J. White	1.25
Dairying for Profit .....	.25
DRAINING for Profit and Health. Waring	1.10
Farm Gardening and Seed Growing. Brill	1.10
Fertilizers, On. Gregory .....	.60
Fertilizers. Edward A. Voorhees	1.10
Forage Crops. Thomas Shaw	1.10
Fungi and Fungicides. Clarence M. Weed. Cloth.	1.10
Fungi and Fungicides. Clarence M. Weed. Paper .....	.60
Fruit Garden. Barry's	1.65
Greenhouse Construction. Prof. L. R. Taft	1.60
Gardening for Profit. New enlarged edition. Peter Henderson	1.60
Gardening and Farm Topics. Henderson	1.15
Greenhouse Management. Prof. L. R. Taft	1.65
Gardening for Pleasure	1.65
Ginseng. Maurice G. Kains. Revised .....	.55
Grasses and Forage Plants. Flint	2.25
Hedges, Windbreaks, Etc. E. P. Powell .....	.55
Hunter and Trapper .....	.50
Insects Injurious to Fruits. Saunders	2.20
Insects of the Farm and Garden, Injurious. Treat.	1.60
Insects and Insecticides. C. M. Weed .....	.60

Keeping One Cow	\$1.10
Landscape Gardening. S. T. Maynard	1.60
Landscape Gardening, Handbook of Practical. Elliot	1.60
Landscape Gardening. F. A. Waugh .....	.60
Mushroom Culture. W. Robinson .....	.55
Mushrooms, How to Grow Them. Wm. Falconer.	1.05
Manures, How to Make and How to Use Them. Frank W. Sempers .....	.45
Manures, Bommer's Method of Making .....	.30
Nut Culturist. Fuller	1.65
Onion Culture, New. Greiner .....	.55
Onion Book, The .....	.30
Our Farm of Four Acres .....	.50
Practical Fruit Grower, Maynard .....	.55
Principles of Fruit Growing	1.40
Potato Culture, A B C of. Terry .....	.40
Prize Gardening. Fiske	1.10
Pruning Book, The. L. H. Bailey	1.60
Rhubarb Culture, New. Gregory .....	.40
Rose, The. H. B. Ellwanger	1.30
Rose, On the. Parsons	1.10
Spraying Crops. Weed .....	.60
Strawberry Culturist. Fuller .....	.30
Strawberry, The A B C of. Terry and Root .....	.40
Small Fruit Culturist. Fuller	1.10
Spraying for Profit .....	.20
Silos, Ensilage and Silage. Miles .....	.55
Soiling Crops and the Silo. Thomas Shaw	1.60
Tomato Culture, Western. By Littooy .....	.40
Vegetables Under Glass. H. A. Dreer .....	.30
Violets, How to Make Money Growing Them .....	.30
Window Flower Garden, The .....	.50

BEES

A B C of Bee Culture. For the veteran as well as the beginner. While the book is in a true sense an A B C of Bee Culture, in that it is adapted to the requirements of beginners, no veteran, no matter how extensive his experience, can afford to be without a work of this kind, containing as it does a carefully prepared treatment on every late method of practice known to the business; 500 pages, cloth bound

\$1.25

Bee Keeper's Guide. Cook	1.25
New Bee Keeping. Quimby's	1.60
Amateur Bee Keeper. Rouse	\$0.30
Forty Years Among Bees. Miller	1.10
How to Manage Bees. Vandruff .....	.40

POULTRY

American Standard of Perfection. This book is used as a guide in producing standard-bred or exhibition fowls. In this book will be found the name of every breed and variety of chickens, turkeys, ducks and geese, and a minute description of each variety, male and female, covering every section in both shape and feathering. Every fancier should have this

\$1.00

Art of Poultry Breeding

.25

Artificial Incubating and Brooding

.50

Blanchard's Poultry Book. Showing how he makes a profit of over \$2 per hen per year on this coast

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Bantam Fowl, The

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Capons for Profit. Greiner

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Plymouth Rocks, All Varieties50
Poultry Houses and Fixtures25
Reliable Poultry Remedies25
Success with Poultry	1.00
Turkeys, Care and Management50
Wyandottes, All Varieties50

NOTE.—"Artificial Incubating" and "Success with Poultry" should be in every poultryman's library. The knowledge gained by reading these two books will be worth ten times the price of the books.

BOOKS FREE

You can get any of the "above" books free. See premium offer inside front cover.

BOOKS FREE

Thoroughbred Poultry and Eggs for Hatching

As we are constantly dealing with hundreds of poultry raisers, we are in position to furnish pure-bred poultry or eggs, from most any variety, at reasonable prices. We only buy from fanciers that we know are reliable and honest, and those who have the best stock.

We have in our employ a poultry judge and expert, and will not send any birds that are not worth the price paid.

EGGS

All eggs carefully packed in baskets or patent boxes and must go by express at the buyer's expense.

Don't expect eggs by return express. Order early and give us a few days' notice.

Per Setting.

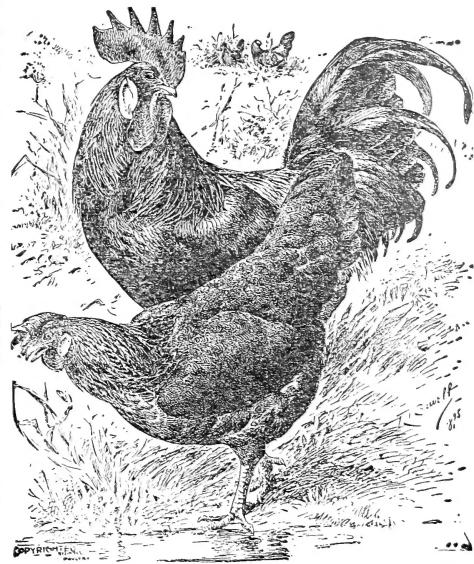
S. C. White Leghorns.....	\$2.50	Silverlaced Wyandottes	\$3.00
S. C. Brown Leghorns....	2.50	Barred Plymouth Rocks ..	3.00
Black Minorcas	2.50	White Plymouth Rocks ..	3.00
White Wyandottes	3.00	Pekin Ducks	3.00

STOCK. The price of breeding birds all depends upon the quality. Write before ordering or send us what you can afford to spend, and we will give you full value.

AVERAGE SELLING PRICES OF BREEDING BIRDS:

	Females.	Males.
Leghorns	\$1.50 to \$2.00	\$2.50 to \$7.50
Minorcas	1.50 to 2.00	2.50 to 7.50
Wyandottes	2.00 to 2.50	3.00 to 10.00
Plymouth Rocks	2.00 to 2.50	3.00 to 10.00

Write for prices of other varieties wanted.



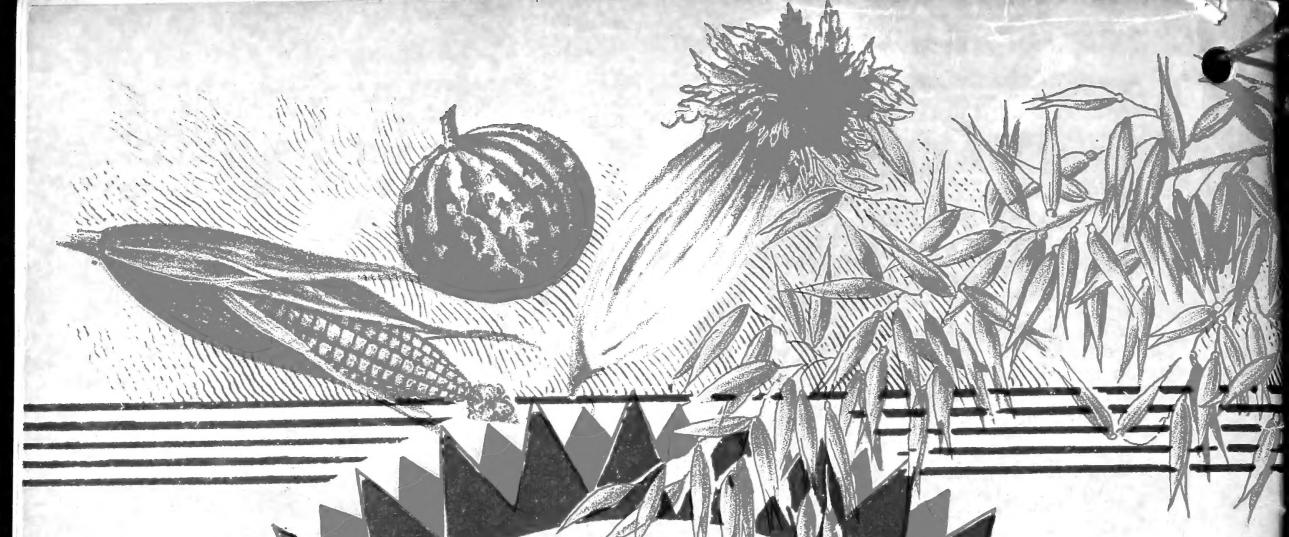
REFERENCE TABLES.

Number of Plants or Trees to the Acre at Given Distances.

Distance apart.	No. Plants.	Distance apart.	No. Plants.	Distance apart.	No. Plants.	Distance apart.	No. Plants.
12x 1 in.	522,720	24x24 in.	10,890	36x36 in.	4,840	60x60 in.	1,743
12x 3 in.	174,240	30x 1 in.	209,088	42x12 in.	12,446	8x 1 ft.	5,445
12x12 in.	43,560	30x 6 in.	34,848	42x24 in.	6,223	8x 3 ft.	1,815
16x 1 in.	392,040	30x12 in.	17,424	42x36 in.	4,148	8x 8 ft.	680
18x 1 in.	348,480	30x16 in.	13,068	48x12 in.	10,890	10x 1 ft.	4,356
18x 3 in.	116,160	30x20 in.	10,454	48x18 in.	7,790	10x 6 ft.	726
18x12 in.	29,040	30x24 in.	8,712	48x24 in.	5,445	10x10 ft.	435
18x18 in.	19,360	30x30 in.	6,970	48x30 in.	4,356	12x 1 ft.	3,630
20x 1 in.	313,635	36x 3 in.	58,080	48x36 in.	3,630	12x 5 ft.	736
20x20 in.	15,681	36x12 in.	14,520	48x48 in.	2,723	12x12 ft.	302
24x 1 in.	261,360	36x18 in.	9,680	60x36 in.	2,901	16x 1 ft.	2,722
24x18 in.	15,520	36x24 in.	7,260	60x48 in.	2,178	16x16 ft.	170

Quantity of Seed requisite to produce a Given Number of Plants and Sow an Acre.

Weight of Various Articles.	Quantity per Acre.	Quantity per Acre.	
Per Bushel.			
Barley .....	.48 lbs.	Orchard, Perennial Rye, Red Top, Fowl Meadow, Wood Meadow	2 bu.
Beans .....	.60 lbs.	Horse Radish Roots	10,000 to 15,000
Buckwheat .....	.48 lbs.	Kale, 1 oz. to 5000 plants	4 oz.
Blue Grass, Ky. ....	.14 lbs.	Kohl Rabi, 1 oz. to 50 ft. of drill.	
Blue Grass, English.....	.24 lbs.	Leek, 1 oz. to 100 ft. of drill	4 lbs.
Canary Seed .....	.60 lbs.	Lettuce, 1 oz. to 150 ft. of drill	3 lbs.
Cheat .....	.34 lbs.	Millet, for seed 20 lbs., for hay	30 lbs.
Clover Seed .....	.60 lbs.	Melon—	
Corn-wheat .....	.60 lbs.	Musk, 1 oz. to 100 hills	2 to 3 lbs.
Corn, shelled .....	.56 lbs.	Water, 4 oz. to 100 hills	2 to 4 lbs.
Charcoal .....	.22 lbs.	Nasturtium, 2 oz. to 100 ft. of drill.	
Flax Seed .....	.56 lbs.	Oats	2 to 3 bu.
Grass Seeds(unless otherwise stated) .....	.14 lbs.	Okra, 1 oz. to 100 ft. of drill	8 lbs.
Hemp Seed .....	.44 lbs.	Onion Seed—	
Hungarian .....	.48 lbs.	1 oz. to 150 feet of drill	5 to 6 lbs.
Meadow Fescue .....	.24 lbs.	For Sets	60 to 85 lbs.
Millet .....	.48 lbs.	Onion Sets, 1 qt. to 40 ft. of drill	8 lbs.
Oats .....	.32 lbs.	Parsnip, 1 oz. to 150 ft. of drill	3 lbs.
Orchard Grass .....	.14 lbs.	Parsley, 1 oz. to 150 ft. of drill	3 lbs.
Peach Pits .....	.48 lbs.	Peas—	
Peas, smooth .....	.60 lbs.	Garden, 1 lb. to 100 ft. of drill	1 to 2 bu.
Peas, wrinkled .....	.56 lbs.	Field	2 bu.
Perennial Rye .....	.20 lbs.	Pepper, 1 oz. to 1000 plants	4 oz.
Potatoes .....	.60 lbs.	Pumpkin, $\frac{1}{2}$ lb. to 100 hills	3 to 4 lbs.
Rape .....	.60 lbs.	Radish, 1 oz. to 100 ft. of drill	10 lbs.
Rye .....	.56 lbs.	Rape	3 to 5 lbs.
Red Top .....	.14 lbs.	Rye	1 $\frac{1}{2}$ to 2 bu.
Red Top, solid seed.....	.42 lbs.	Salsify, 1 oz. to 100 ft. of drill	8 lbs.
Speltz .....	.40 lbs.	Speltz	100 lbs.
Timothy Seed .....	.45 lbs.	Spinage, 1 oz. to 100 ft. of drill	8 lbs.
Vetches .....	.60 lbs.	Sunflower	8 lbs.
Wheat .....	.60 lbs.	Squash, Summer, 4 oz. to 100 hills	3 lbs.
		Winter, 8 oz. to 100 hills	4 lbs.
		Tomato, 1 oz. to 2000 plants	4 oz.
		Tobacco, 1 oz. to 5000 plants	2 oz.
		Turnip, 1 oz. to 150 ft. of drill	2 to 3 lbs.
		Vetches	2 bu.
		Wheat	2 bu.



A
CATALOGUE OF
PURE RELIABLE SEEDS

TREES, ROSES, FERTILIZERS,
GARDEN TOOLS AND HOSE,
SPRAYS AND SPRAY PUMPS,
BEE AND POULTRY SUPPLIES.

ISSUED BY

PORTLAND SEED CO.
PORTLAND,
ORE.

